SHARP SERVICE MANUAL

ATSMX82154RCS

APLD Auto Program Locate Device **APPS** Auto Program Pause System

SHARP
SHARP
SHARP
700

GF-700Z
GF-700ZD
GF-700ZR

In the interests of user-safety the set should be restored to its original condition and only parts indentical to those specified be used.

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SHARP CORPORATION OSAKA, JAPAN

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

GENERAL

Power source:		AC 110 ~ 127/220 ~ 240V, 50/60Hz DC 15V (UM/SUM-1, R-20, HP-2 or D type x 10 or external 15V DC)
Speakers:	Woofer;	12cm (4-3/4") x 2
	Tweeter;	Ceramic type x 2
Output power:	MPO;	30W (15W + 15W) (AC Operation)
	RMS;	15W (7.5W + 7.5W) (DC Operation, 10% Distortion)
Semiconductors:		16-IC's 25-Transistors 36-Diodes 14-LED's
Dimensions:	Width;	730mm (28-11/16")
	Height;	225mm (8-13/16")
	Depth;	160mm (6-5/16")
Weight (without batteries):		7.7kg (17 lbs.)

TAPE RECORDER/PLAYER

Tape:	Compact cassette tape
Frequency response:	30Hz – 14,000Hz (normal) 30Hz – 16,000Hz (CrO_2) 30Hz – 17,000Hz (metal)

S/N ratio:	Deck 2	50dB (Recording)	
	Deck 1	55dB (Playback)	
Wow and flutter:		0.06% (WRMS)	
Input impedance:	Mixing/External Mic;		600 ohms
	Phono/Line in;		50K ohms/20K ohms
Output impedance:		Headphones;	8 ohms to 32 ohms
		External speaker;	3.2 ohms to 8 ohms
		Line out;	50K ohms

RADIO

Frequency range:	AM; 526.5kHz to 1,606.5kH SW_1; 2.3MHz to 7.3MHz SW_2; 7.3MHz to 22MHz FM; 87.6MHz to 108MHz

SPEAKER

Speakers:	16cm (6-1/2") woofer x 2 Horn type tweeter x 2
Impedance:	3.2 ohms
Input:	10W (maximum) 18W (peak)

Specifications for this model are subject to change without prior notice.

POWER SUPPLY

The Unit will operate on an AC power supply of 110 ~ 127 Volts, or 220 ~ 240 Volts of 50Hz or 60Hz. For portable use it will operate on its internal batteries, or from an external 15 Volts DC supply (with an adaptor).

VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the AC power supply socket cover by a little loosing screw to the visible indication of the side of your local voltage.

NAMES OF PARTS

1. Tweeter (Left)
2. Power Indicator
3. FM Stereo Indicator
4. Level Meter
5. Band Selector
6. Tuning Control
7. Fine Tuning Control
8. Tweeter (Right)
9. Woofer (Left)
10. Mixing Microphone Sockets
11. Woofer (Right)
12. Headphones Socket
13. Deck 1: Tape Selector Switch
14. Deck 2: Tape Selector Switch
15. Dubbing Speed/Microphone Switch
16. Microphone Selector Switch
17. Function Switch
18. FM Mode Switch
19. Deck 2: Record Muting Button
20. Microphone Volume Control
21. Balance Control
22. Volume Control
23. Power Switch
24. APSS End-Pause Indicator
25. Programme-set Indicator
26. APLD/APPS Set Button
27. APLD/APPS clear Button
28. Dubbing Indicator
29. Deck 2: Digital Tape Counter
30. Tape Counter Reset Button
31. Deck 1: Cassette Compartment
32. Graphic Equalizer Controls
33. Deck 2: Cassette Compartment
34. Deck 1: Eject Button
35. Deck 1: Play Button
36. Deck 1: Stop Button
37. Deck 1: Rewind Button
38. Deck 1: Fast Forward Button
39. Deck 1: Pause Button
40. Dubbing Start Button
41. Deck 2: Eject Button
42. Deck 2: Record Button
43. Deck 2: Play Button
44. Deck 2: Stop Button
45. Deck 2: Rewind Button
46. Deck 2: Fast Forward Button
47. Deck 2: Pause Button
48. Speaker Release Knob (Right)
49. Line/Phono Input Sockets
50. Earth Terminal
51. Input Switch
52. FM/SW Telescopic Rod Antenna
53. Line Output Sockets
54. Beat Cancel Switch
55. Speaker Release Knob (Left)
56. Speaker Lead Holder (Right)
57. Speaker Socket (Right)
58. Battery Compartment Lid
59. AC Power Supply Socket
60. External DC Power Supply Socket
61. Speaker Socket (Left)
62. Speaker Lead Holder (left)

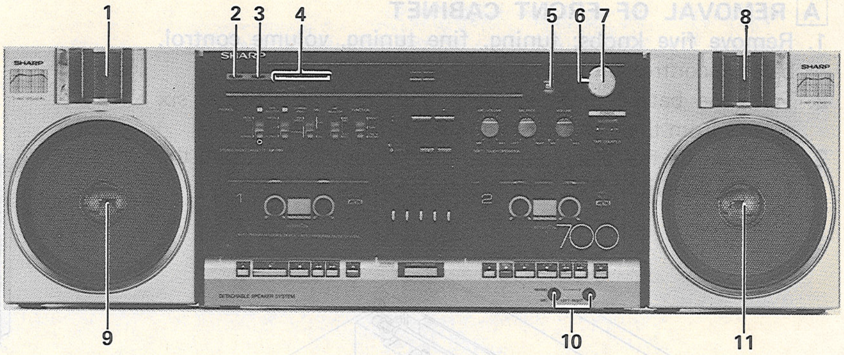

1
2
3
4
5
6
7
8
SHARP
700
9
10
11

Figure 3–1

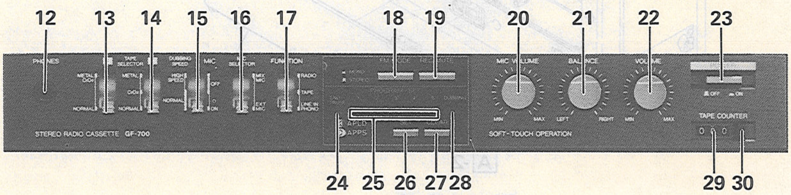

12
13
14
15
16
17
18
19
20
21
22
23
STEREO RADIO CASSETTE GF-700
SOFT-TOUCH OPERATION
TAPE COUNTER
24
25
26
27
28
29
30

Figure 3–2

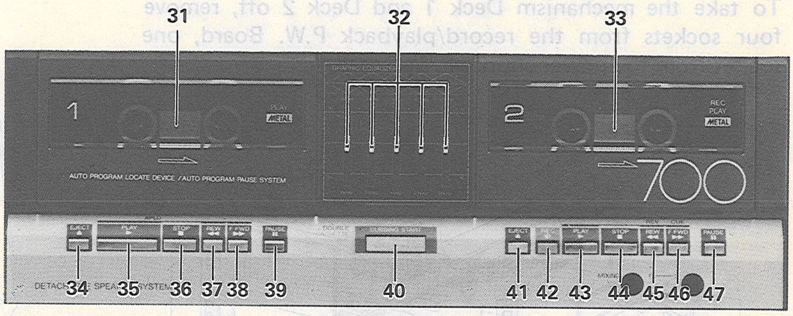

31
32
33
1
2
700
AUTO PROGRAM LOCATE DEVICE / AUTO PROGRAM PAUSE SYSTEM
34
35
36
37
38
39
40
41
42
43
44
45
46
47

Figure 3–3

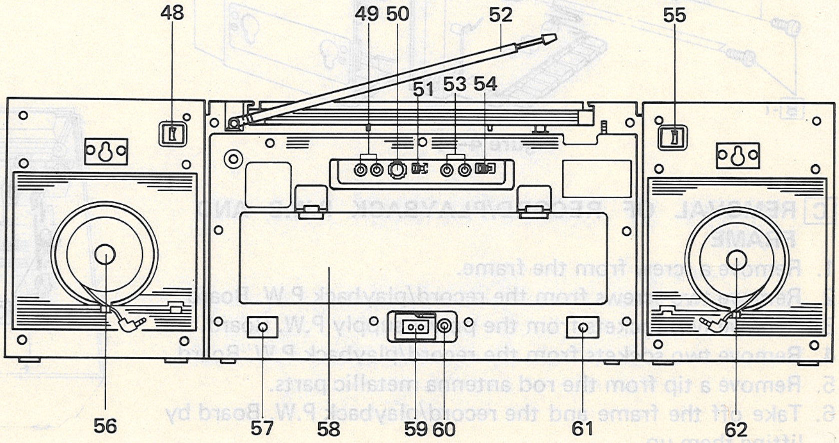

48
49
50
52
55
51
53
54
56
57
58
59
60
61
62

Figure 3–4

DISASSEMBLY

A REMOVAL OF FRONT CABINET

1. Remove five knobs; tuning, fine tuning, volume control, balance control and microphone volume control.
2. Take the battery compartment lid off. Then, remove six screws from the front cabinet and the rear cabinet.
3. To take the front cabinet off, remove four screws from the graphic equalizer P.W. Board and APLD/APPS P.W. Board.

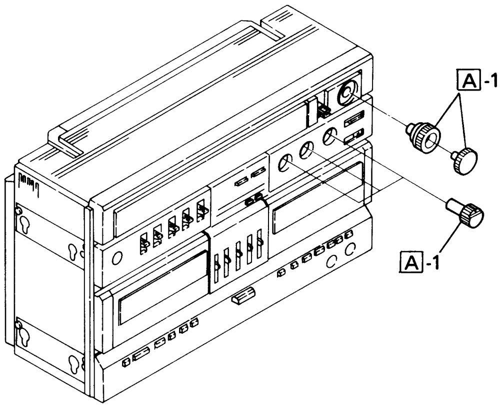


Figure 4–1

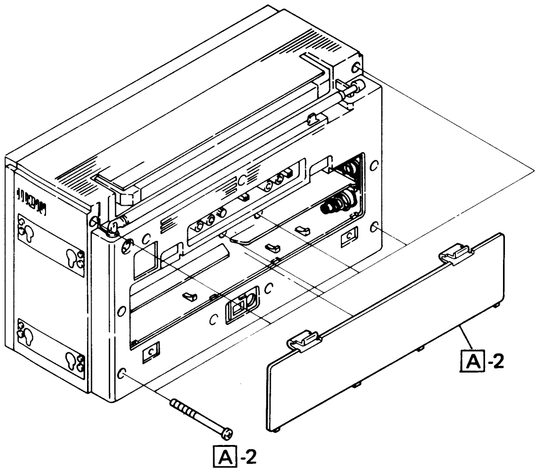


Figure 4–2

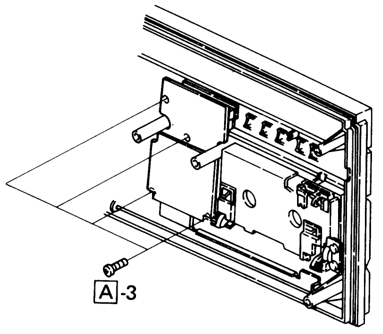


Figure 4–3

B REMOVAL OF MECHANISM

1. Remove four screws, a tape counter belt and two sockets from the mechanism.
2. To take the mechanism Deck 1 and Deck 2 off, remove four sockets from the record/playback P.W. Board, one socket from the power supply P.W. Board.

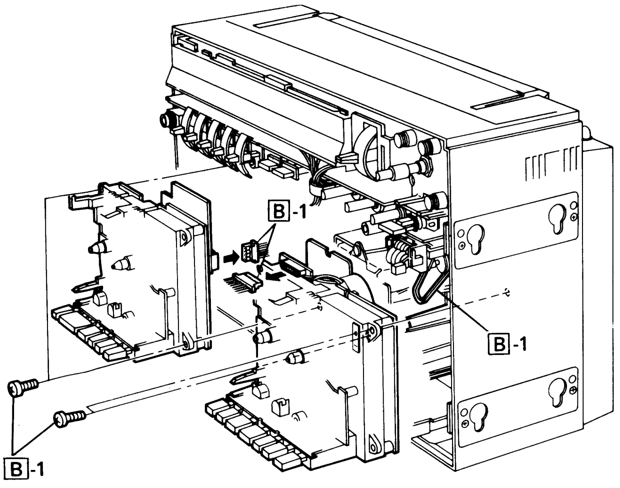


Figure 4–4

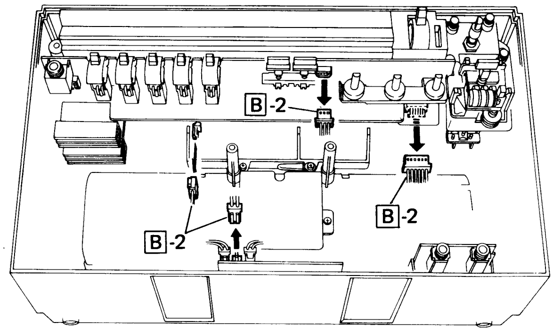


Figure 4–5

C REMOVAL OF RECORD/PLAYBACK P.W.B AND FRAME

1. Remove a screw from the frame.
2. Remove two screws from the record/playback P.W. Board.
3. Remove two sockets from the power supply P.W. Board.
4. Remove two sockets from the record/playback P.W. Board.
5. Remove a tip from the rod antenna metallic parts.
6. Take off the frame and the record/playback P.W. Board by lifting them up.

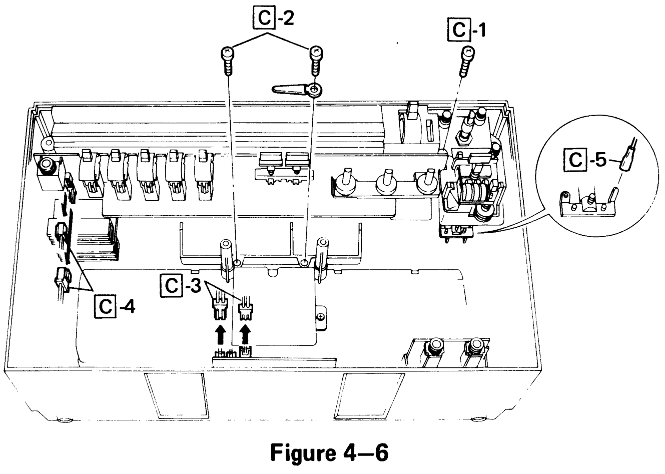


Figure 4–6

DIAL CORD STRINGING

1) Turn the drum fully clockwise and stretch its cord over the parts in the numerical order – as shown in Fig. 5-2.
2) Turn the turning control shaft fully clockwise and fix its pointer as shown in Fig. 5-1.

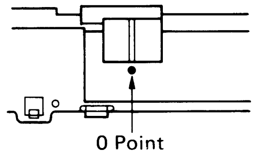


Figure 5–1

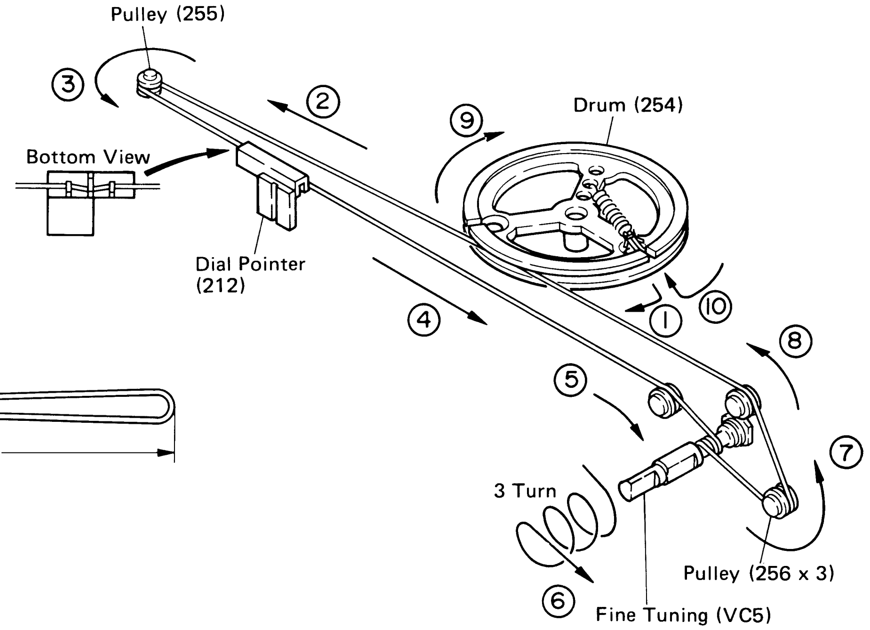
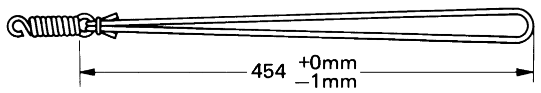
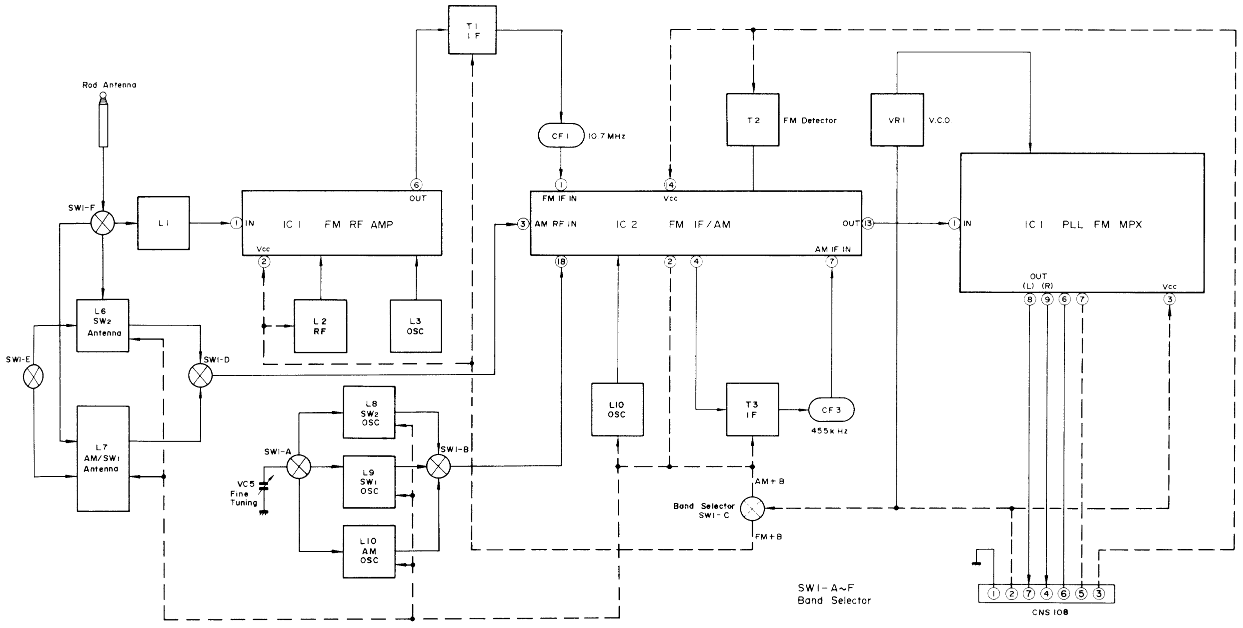

Pulley (255)
③
②
Bottom View
Dial Pointer (212)
⑨
Drum (254)
①
⑩
④
⑧
⑤
⑦
3 Turn
Pulley (256 x 3)
⑥
Fine Tuning (VC5)

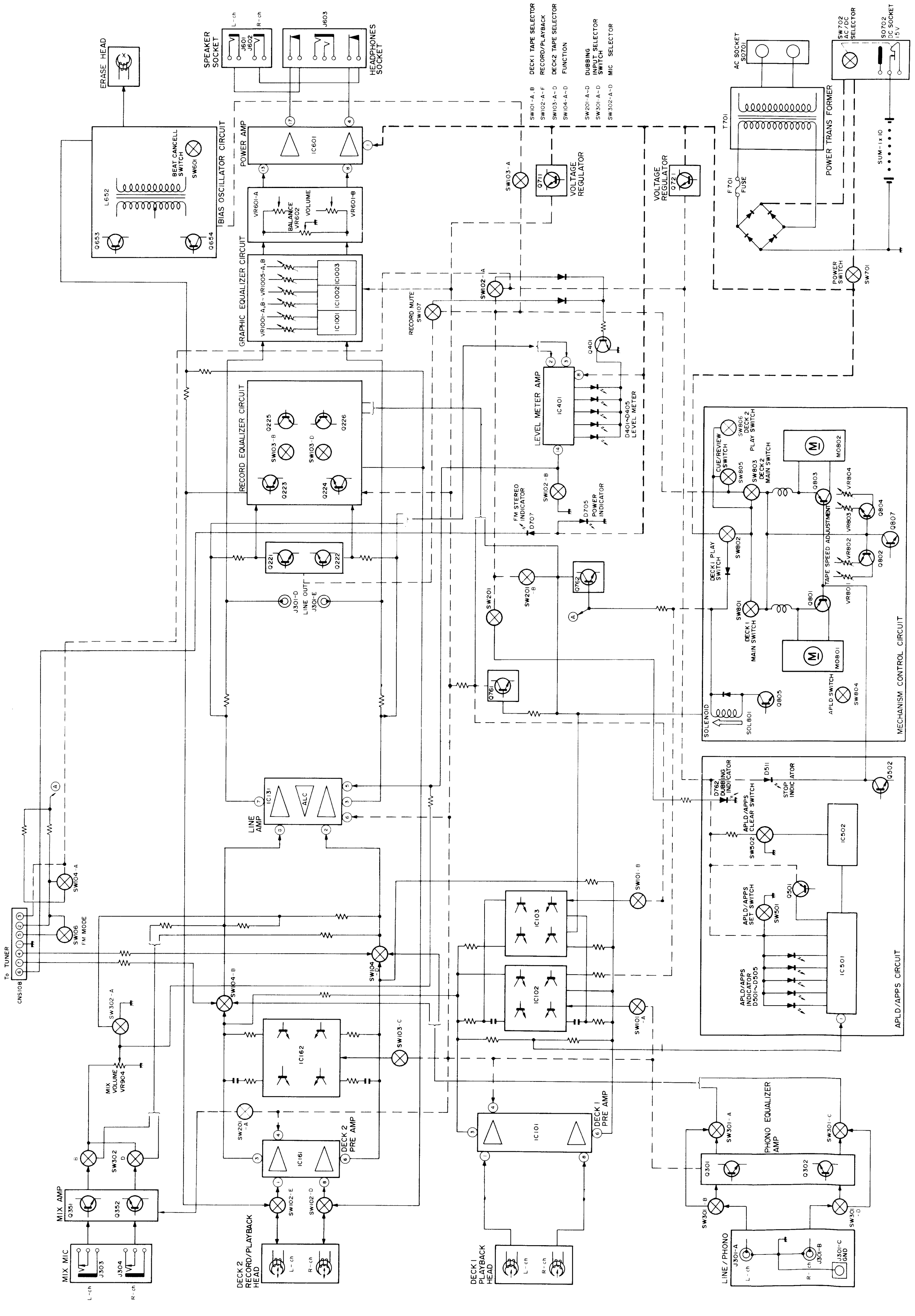
Figure 5–2



BLOCK DIAGRAM (Tuner)


Rod Antenna
SW1-F
L1
IN
IC1 FM RF AMP
OUT
Vcc
L2 RF
L3 OSC
T1 IF
CF1 10.7MHz
FM IF IN
AM RF IN
IC2 FM IF/AM
Vcc
OUT
AM IF IN
T2 FM Detector
VR1 V.C.O
IN
IC1 PLL FM MPX
OUT (L) (R)
Vcc
SW1-E
L6 SW2 Antenna
SW1-D
L7 AM/SW1 Antenna
SW1-A
VC5 Fine Tuning
L8 SW2 OSC
L9 SW1 OSC
L10 AM OSC
SW1-B
L10 OSC
T3 IF
CF3 455kHz
AM+B
Band Selector SW1-C
FM+B
SW1-A~F Band Selector
CNS108

BLOCK DIAGRAM (Audio)


ERASE HEAD
SPEAKER SOCKET
HEADPHONES SOCKET
J603
BIAS OSCILLATOR CIRCUIT
BEAT CANCELL SWITCH SW601
L652
Q653
Q654
POWER AMP
IC601
VR601-A
BALANCE VR602
VOLUME
VR601-B
GRAPHIC EQUALIZER CIRCUIT
IC1001
IC1002
IC1003
DECK1 TAPE SELECTOR
RECORD/PLAYBACK
DECK2 TAPE SELECTOR
FUNCTION
DUBBING
INPUT SELECTOR
MIC SELECTOR
Q711
VOLTAGE REGULATOR
Q721
VOLTAGE REGULATOR
AC SOCKET S701
T701
POWER TRANS FORMER
F701 FUSE
SW702 AC/DC SELECTOR
POWER SWITCH SW701
RECORD MUTE
RECORD EQUALIZER CIRCUIT
Q225
Q226
Q223
Q224
LEVEL METER AMP
IC401
Q401
LEVEL METER
FM STEREO INDICATOR
POWER INDICATOR
Q221
Q222
LINE OUT
MECHANISM CONTROL CIRCUIT
CUE/REVIEW SWITCH
DECK2 PLAY SWITCH
DECK2 MAIN SWITCH
M
M0802
TAPE SPEED ADJUSTMENT
DECK1 PLAY SWITCH
DECK1 MAIN SWITCH
M0801
APLD SWITCH SW804
SOLENOID SOL801
DUBBING INDICATOR
STOP INDICATOR
LINE AMP
IC301
ALC
APLD/APPS CLEAR SWITCH
IC502
APLD/APPS SET SWITCH
IC501
APLD/APPS INDICATOR
APLD/APPS CIRCUIT
To TUNER CNS108
FM MODE
IC103
IC102
IC162
MIX VOLUME VR904
DECK 2 PRE AMP
IC161
DECK 1 PRE AMP
IC101
PHONO EQUALIZER AMP
Q301
Q302
MIX AMP
Q351
Q352
MIX MIC
DECK 2 RECORD/PLAYBACK HEAD
DECK 1 PLAYBACK HEAD
LINE/PHONO
GND

MECHANICAL ADJUSTMENT

PINCH ROLLER PRESSURE CHECK

1. Place the unit in PLAY mode.
2. Push the pinch roller, at the point shown in Fig. 7-1, by using a tension gauge (500 gr.) so that it will come off the capstan. Then, release the tension slowly until the pinch roller hits the capstan again (i.e., the pinch roller is about to rotate again). The see the tension gauge is reading 350 gr. to 420 gr.
3. If the reading is outside the range of 350 gr. to 420 gr., bend the pressure spring of the pinch roller so that the reading is inside the range, or replace it.

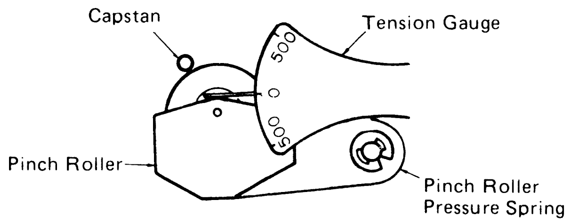


Figure 7–1

TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES

Put a torque meter cassette in the cassette compartment of the set, and see that the measured torque in each mode is normal as shown in Table 7.

Mode	Torque meter cassette	Measured torque
Playback	TW-2111	35 ~ 60 g-cm
Fast-forward	TW-2231	90 ~ 135 g-cm
Rewind	TW-2231	90 ~ 135 g-cm

Table 7

TAPE SPEED ADJUSTMENT (See Fig. 7-2)

Caution:

The high speed operation has priority over the normal speed operation, and so never fail to do the adjustment for the former first and then for the latter.

For High Speed Operation

1. Connect a wow/flutter meter to the Line Output socket across a 100K ohm resistor, and shortcircuit the deck 1 control terminal (TP801).
2. Play a test tape (TEAC, MTT-118, 1kHz prerecorded) – at its middle part but not at its start or end point.
3. Adjust the semi-variable resistors (VR802 for the deck 1 and VR803 for the deck 2) located on the deck 1 and deck 2 mechanism P.W. Boards, so that the output frequency is 1970 to 1990Hz for the deck 1 and 1970 to 1990Hz for the deck 2.

For Normal Speed Operation:

1. Play a test tape (TEAC, MTT-111, 3kHz prerecorded).
2. Adjust the semi-variable resistors (VR801 for the deck 1 and VR804 for the deck 2) located on the deck 1 and deck 2 mechanism P.W. Boards, so that the output frequency is 2995 to 3025Hz on the wow/flutter meter for both decks 1 and 2.

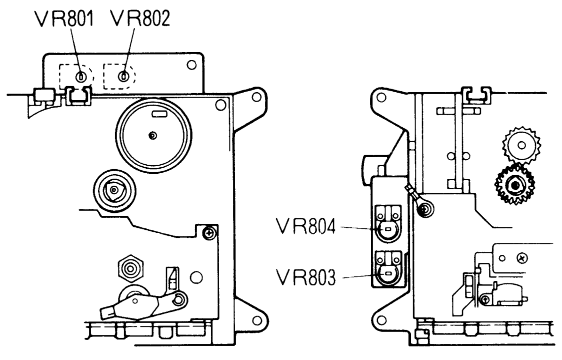


Figure 7–2

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

1. Connect instruments as shown in Fig. 7-3.
2. Set the dubbing switch SW201 to the off position and tape selector switch SW101 and SW103 to normal position.
3. Play a test tape (TEAC, MTT-114, 10kHz prerecorded).
4. Adjust the head azimuth adjusting screw so that sine waveform attains the maximum.

E.V.: (Electronic Voltmeter)

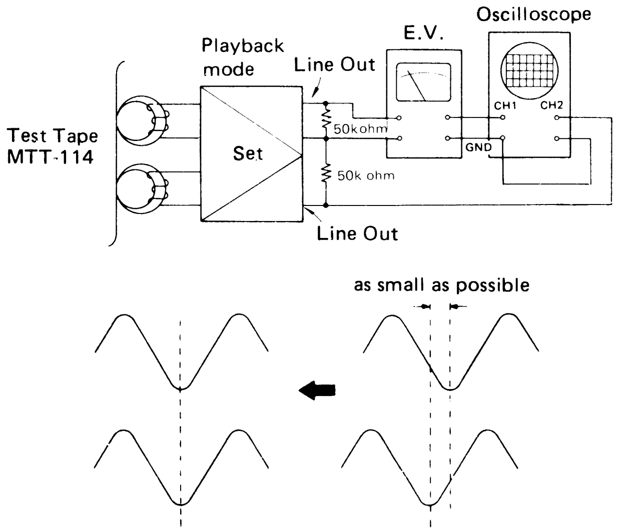


Figure 7–3

ELECTRICAL ADJUSTMENT

BIAS OSCILLATOR FREQUENCY CHECK

1. Connect instruments as shown in Fig. 8-1.
2. Set the function selector switch to "tape" and the beat cancel switch to "A" position.
3. Place the unit in record mode, and adjust the coil (L652) so that the frequency counter reads 106 ±5kHz.
   Changing the beat cancel switch from "A" to "B" position, see that the frequency counter reading changes by +1 ~ 2kHz from the previous value 106 ±5kHz: and with the beat cancel switch set at "C" position, see that it changes by –3.5 ~ 6.5kHz from previous value 106 ±5kHz.
4. Adjust the step-up coils (L223 and L224) so that sine waveform reads 4mV at normal tape position. then, see that sine waveform reads 5.7mV at CrO_2 tape position and 9mV at metal tape position. After the adjustment, shortcircuit the resistors (R161 and R162).

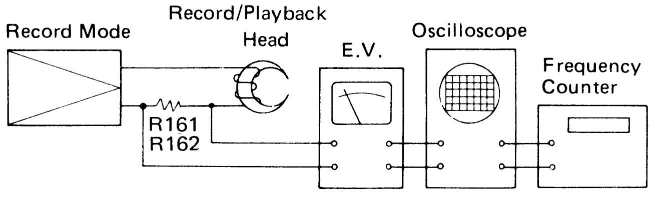


Figure 8–1

ERASE CURRENT CHECK

1. Connect instruments as shown in Fig. 8-2.
2. Set the deck 2 tape selector switch (SW103) to "Normal" position.
3. Place the unit in record mode, and see the electronic voltmeter reads 60mV.

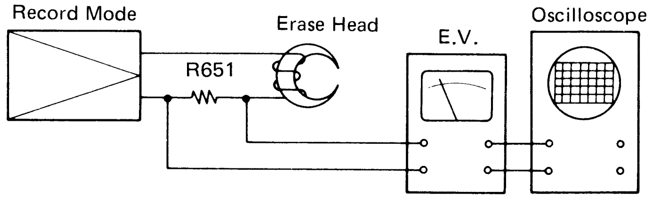


Figure 8–2

PLAYBACK AMPLIFIER SENSITIVITY CHECK

1. Connect instruments as shown in Fig. 8-3.
2. Set the function selector switch to "tape", the volume control knob (VR601) to "10/max", and the graphic equalizer controls to "center" position.
3. Play a test tape (TEAC, MTT-118, 1kHz, 250pWb/mm, –10dB prerecorded).
4. See that the electronic voltmeter reads about 1.5V ±3dB.

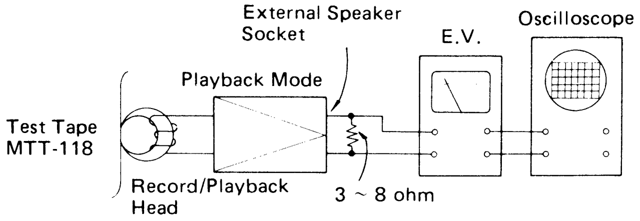


Figure 8–3

RECORD AMPLIFIER SENSITIVITY CHECK

1. Using a CR oscillator, apply a signal of oscillation frequency 1kHz to each input socket of the unit.
2. Check for the input voltage available when the level indicator "0VU" lights up. See Table 8 which shows the values when the voltage between R161 and R162 is 0.175mV.

Phono input	0.7 ~ 1.4mV (–60 ±3dB, 0dB = 1V)
Line input	70 ~ 140mV (–20 ±3dB, 0dB = 1V)
External mic input	0.28 ~ 0.56mV (–68 ±3dB, 0dB = 1V)

Table 8

GENERAL ADJUSTMENT INSTRUCTION

Should it become necessary at any time to check the adjustment of this receiver, proceed as follows;

1. Set the volume control (VR601) to maximum.
2. Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
3. Use a non-metallic adjustment tool.
4. Repeat adjustments to insure good results.
5. Set the function selector switch (SW104) to "radio" position.

AM IF/RF ADJUSTMENT

- Set the signal generator to produce a signal of 400Hz, 30%, AM modulated.
- For adjustments in steps 4 and 9, see Note A .

STEP	BAND	TEST STAGE	FRE-QUENCY	DIAL SETTING	ADJUST-MENT	REMARKS
IF (Connect instruments as shown in Fig. 9-1.)						
1	AM	IF	455kHz	High end of dial	T3	Adjust for best "IF" curve
RF (Connect instruments as shown in Fig. 9-2.)						
2	AM	Band cover-age	510kHz	Low end of dial	L10	Adjust for maximum output
3	AM		1650 kHz	High end of dial	TC8	
4	AM	Track-ing	600kHz	600 kHz	L7	
5	AM		1400 kHz	1400 kHz	TC5	
6	Repeat steps 2,3,4 and 5 until no further improvement can be made.					
RF (Connect instruments as shown Fig. 9-3.)						
7	SW_1	Band cover-age	2.25 MHz	Low end of dial	L9	Adjust for maximum output
8	SW_1		7.4MHz	High end of dial	TC7	
9	SW_1	Track-ing	2.6MHz	2.6MHz	L7	
10	SW_1		6.0MHz	6.0 MHz	TC4	
11	Repeat steps 7,8,9 and 10 until no further improvement can be made.					
12	SW_2	Band cover-age	7.2MHz	Low end of dial	L8	Adjust for maximum output
13	SW_2		22.5 MHz	High end of dial	TC6	
14	SW_2	Track-ing	8.5MHz	8.5 MHz	L6	
15	SW_2		19MHz	19 MHz	TC3	
16	Repeat steps 12, 13, 14 and 15 until no further improvement can be made.					

Note A

Check the adjustment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

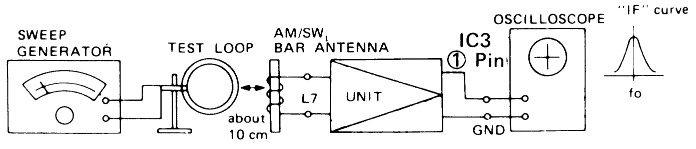

SWEEP GENERATOR
TEST LOOP
AM/SW1 BAR ANTENNA
about 10 cm
L7
UNIT
IC3
① Pin
GND
OSCILLOSCOPE
"IF" curve
fo

Figure 9—1

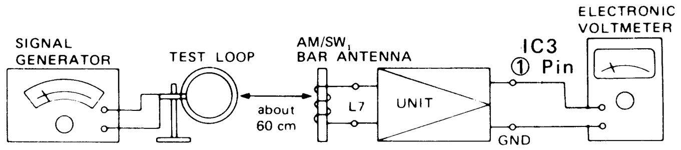

SIGNAL GENERATOR
TEST LOOP
AM/SW1 BAR ANTENNA
about 60 cm
L7
UNIT
IC3
① Pin
GND
ELECTRONIC VOLTMETER

Figure 9—2

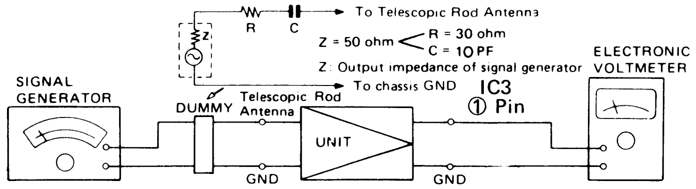

R
C
Z
To Telescopic Rod Antenna
Z = 50 ohm
R = 30 ohm
C = 10 PF
Z: Output impedance of signal generator
To chassis GND
SIGNAL GENERATOR
DUMMY
Telescopic Rod Antenna
UNIT
GND
IC3
① Pin
GND
ELECTRONIC VOLTMETER

Figure 9—3

FM IF/RF ADJUSTMENT

- Set the signal generator to produce a signal of 400Hz, 30%, FM modulated.

STEP	BAND	TEST STAGE	FRE-QUENCY	DIAL SET-TING	AD-JUST-MENT	REMARKS
IF (Connect instruments as shown in Fig. 10-1.)						
1	FM	IF Note B	10.7 MHz	High end of dial	T1 T2	Adjust for best "S" curve
RF (Connect instruments as shown in Fig. 10-2.)						
2	FM	Band cover-age	87.1 MHz	Low end of dial	L3	Adjust for maximum output
3	FM		109 MHz	High end of dial	TC2	
4	FM	Track-ing	88 MHz	88 MHz	L2	
5	FM		108 MHz	108 MHz	TC1	
6	Repeat steps 2,3,4 and 5 until no further improvement can be made.					

FM STEREO ADJUSTMENT

- Set the band selector switch (SW1) to "FM" position and FM mode selector switch (SW106) to "stereo" position.
- Before this adjustment, connect the anode side of Stereo indicator (D707) to GND.
- Connect instruments as shown in Fig. 10-3 and Fig. 10-4.

FREQUENCY	DIAL POINTER	ADJUST-MENT	REMARKS
98MHz (54dB) unmodulated	98MHz	VR1	Adjust for 38 ± 0.15kHz

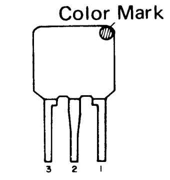
Note B

There are 5 kinds of ceramic filters (CF1, CF2) available with this unit and they are given color indication as tabulated below to differentiate the central frequency from one to another among them. When using them, be sure to make the two of the same type a pair.

When other ceramic filters than the one (red) having the central frequency of 10.7 MHz are used, note that a marker (10.7 MHz) of FM sweep generator, if used, will be deviated — therefore, adjust the generator by putting off the marker.

Color Mark

1. Input
2. GND
3. Output


Color Mark
3
2
1

Central frequency (fo)	D	Black:	10.64MHz ±30kHz
	B	Blue:	10.67MHz ±30kHz
	A	Red:	10.70MHz ±30kHz
	C	Orange:	10.73MHz ±30kHz
	E	White:	10.76MHz ±30kHz

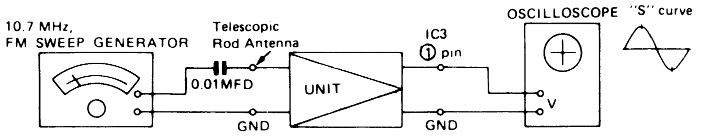

10.7 MHz, FM SWEEP GENERATOR
Telescopic Rod Antenna
0.01MFD
GND
UNIT
IC3
① pin
GND
OSCILLOSCOPE
V
"S" curve

Figure 10—1

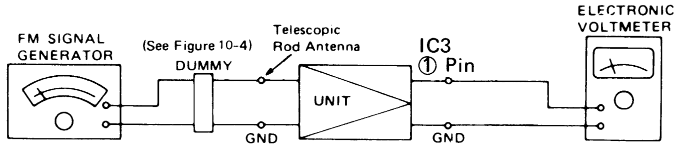

FM SIGNAL GENERATOR
(See Figure 10-4) DUMMY
Telescopic Rod Antenna
UNIT
GND
IC3
① Pin
GND
ELECTRONIC VOLTMETER

Figure 10—2

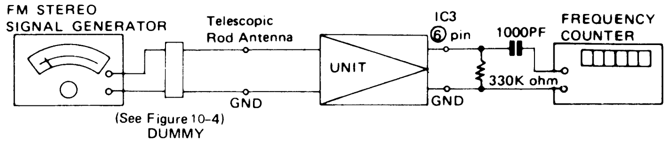

FM STEREO SIGNAL GENERATOR
(See Figure 10-4) DUMMY
Telescopic Rod Antenna
GND
UNIT
IC3
⑥ pin
GND
1000PF
330K ohm
FREQUENCY COUNTER

Figure 10—3

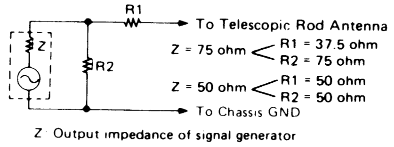
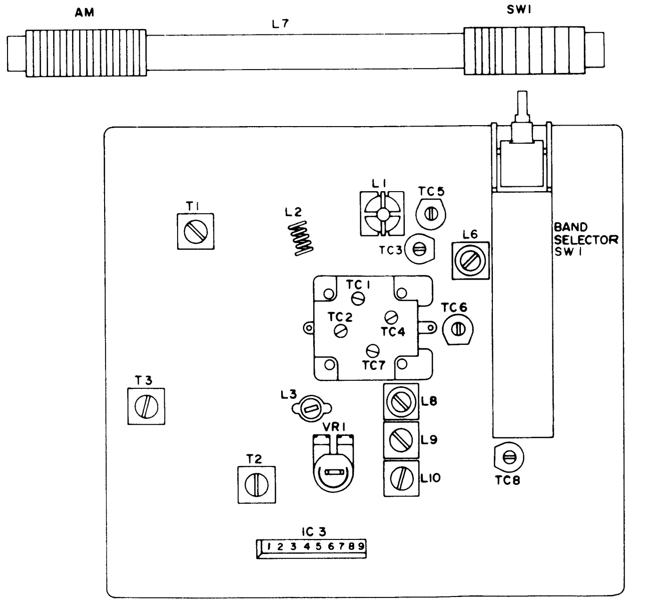
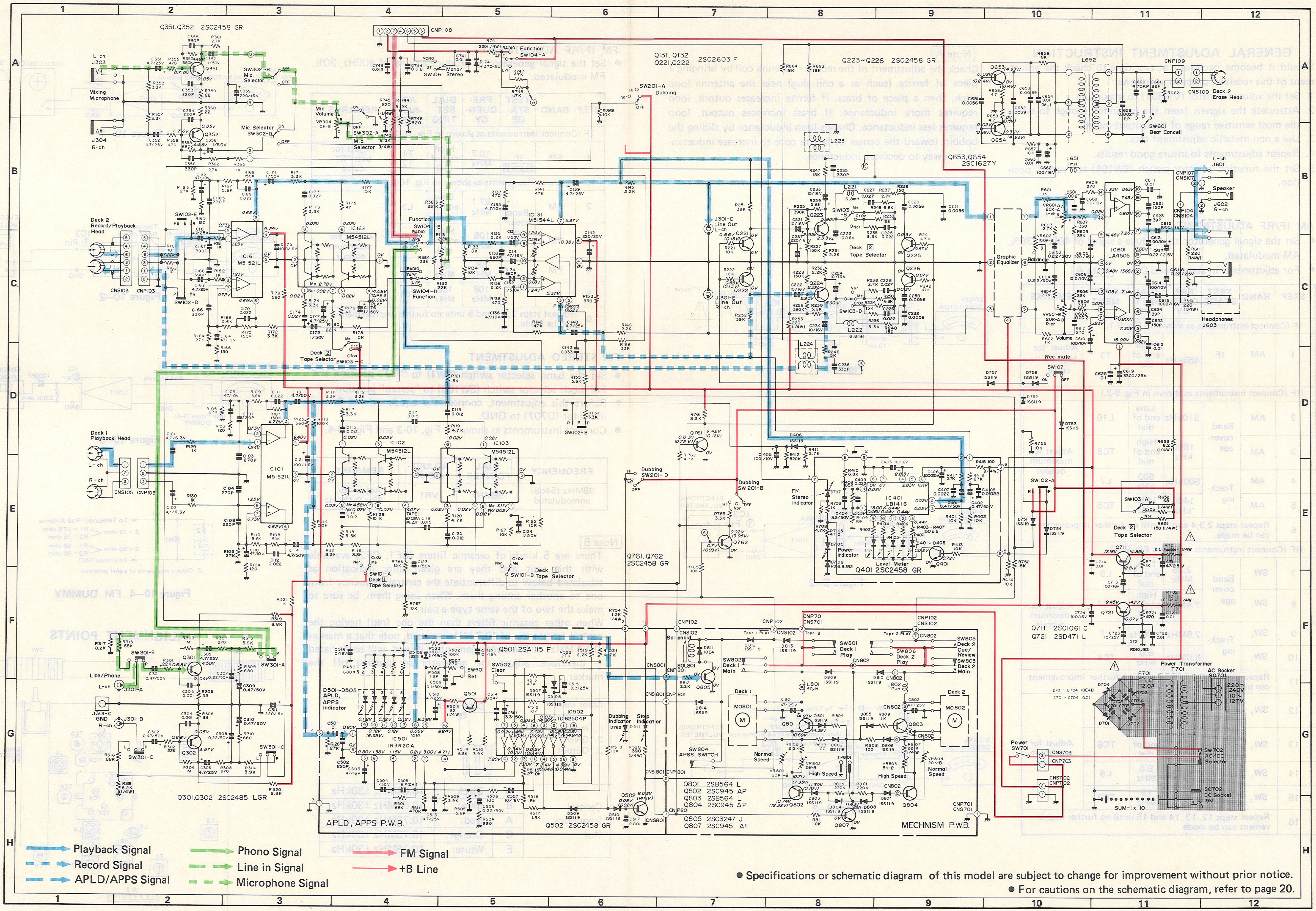

R1
Z
R2
To Telescopic Rod Antenna
Z = 75 ohm
R1 = 37.5 ohm
R2 = 75 ohm
Z = 50 ohm
R1 = 50 ohm
R2 = 50 ohm
To Chassis GND
Z: Output impedance of signal generator

Figure 10—4 FM DUMMY

ALIGNMENT POINTS


AM
L7
SWI
T1
L2
L1
TC5
TC3
L6
BAND SELECTOR SW1
TC1
TC2
TC4
TC6
TC7
T3
L3
VR1
L8
L9
L10
TC8
T2
IC 3
1 2 3 4 5 6 7 8 9


Q351, Q352 2SC2458 GR
L-ch J303
Mixing Microphone
J304 R-ch
SW302-B Mic Selector
Mic Volume VR904 10K-B
SW302-A Mic Selector
Mic. Selector SW302-D
CNP108
Function SW104-A
SW106 Mono/Stereo
Q131, Q132 Q221, Q222 2SC2603 F
SW201-A Dubbing
Q223~Q226 2SC2458 GR
Note A
Q653, Q654 2SC1627Y
CNP109
CNS109
Deck 2 Erase Head
SW601 Beat Cancel
L652
L651
Deck 2 Record/Playback Head
CNS103 CNP103
IC161 M5152IL
SW102-E
SW102-D
IC162 M54512L
Function SW104-B
Function SW104-C
IC131 M51544L
Deck 2 Tape Selector SW103-C
J301-D Line Out L-ch
J301-E Line Out R-ch
SW103-B Deck 2 Tape Selector
SW103-D
L221
L222
L223
L224
Graphic Equalizer
Balance
VR602 100K-B
VR601-A 20K-A L-ch
VR601-B 20K-A R-ch
Volume
IC601 LA4505
Speaker
J602 R-ch
L-ch J601
CNP107 CNS107
CNP104 CNS104
Headphones J603
Rec mute
SW107
D757 1SS119
D756 1SS119
Deck 1 Playback Head
L-ch R-ch
CNS105 CNP105
IC101 M5152IL
IC102 M54512L
IC103 M54512L
SW102-B
Q761, Q762 2SC2458 GR
Dubbing SW201-D
Dubbing SW 201-B
FM Stereo Indicator
IC401 LB1416
Power Indicator
Level Meter
Q401 2SC2458 GR
D401~D405
SW102-A
SW103-A
Deck 2 Tape Selector
Q711 2SC1061 C
Q721 2SD471 L
Power Transformer T701
AC Socket SO701
220~240V 110~127V
SW702 AC/DC Selector
SO702 DC Socket 15V
SUM-1×10
Power SW701
CNS703 CNP703
CNS702 CNP702
SW101-A Deck 1 Tape Selector
SW101-B Deck 1 Tape Selector
Line/Phone
J301-A L-ch
J301-C GND
J301-B R-ch
SW301-B
SW301-A
SW301-C
SW301-D
Q301, Q302 2SC2485 LGR
D501~D505 APLD, APPS Indicator
Q501 2SA1115 F
SW502 Clear
SW501 Set
IC501 IR3R20A
IC502 TD62504P
Q502 2SC2458 GR
APLD, APPS P.W.B.
Dubbing Indicator
Stop Indicator
CNP102 CNS102
CNP701 CNS701
Solenoid
SOL801
SW801 Deck 1 Play
SW802 Deck 1 Main
SW806 Deck 2 Play
SW805 Deck 2 Cue/Review
SW803 Deck 2 Main
Deck 1 M0801
Deck 2 M0802
SW804 APPS SWITCH
Normal Speed
High Speed
Q801 2SB564 L
Q802 2SC945 AP
Q803 2SB564 L
Q804 2SC945 AP
Q805 2SC3247 J
Q807 2SC945 AF
MECHNISM P.W.B.

→ Playback Signal

- - → Record Signal

— — → APLD/APPS Signal

→ Phono Signal

- - → Line in Signal

- - - → Microphone Signal

→ FM Signal

→ +B Line

- Specifications or schematic diagram of this model are subject to change for improvement without prior notice.
- For cautions on the schematic diagram, refer to page 20.

Figure 11 SCHEMATIC DIAGRAM

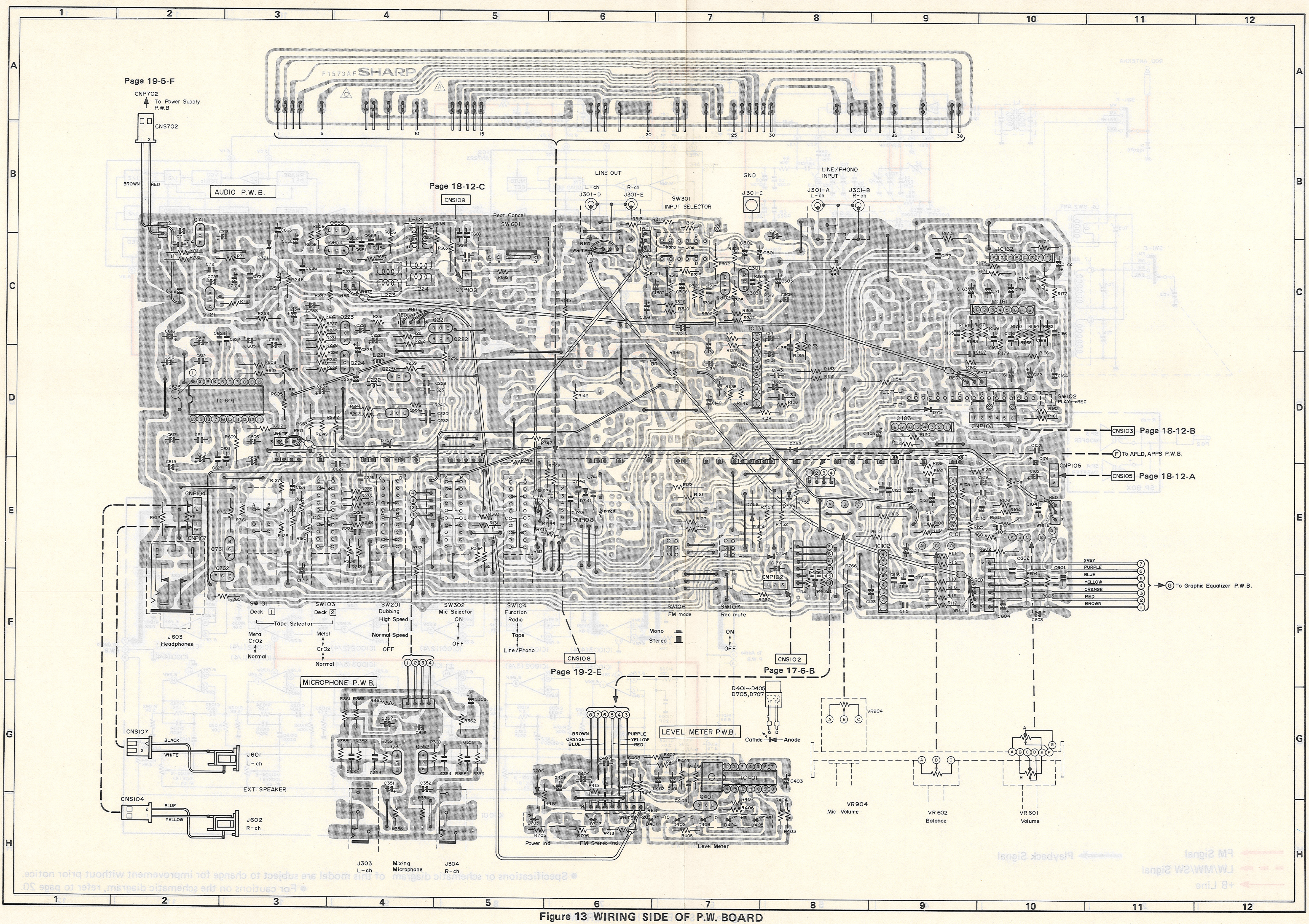
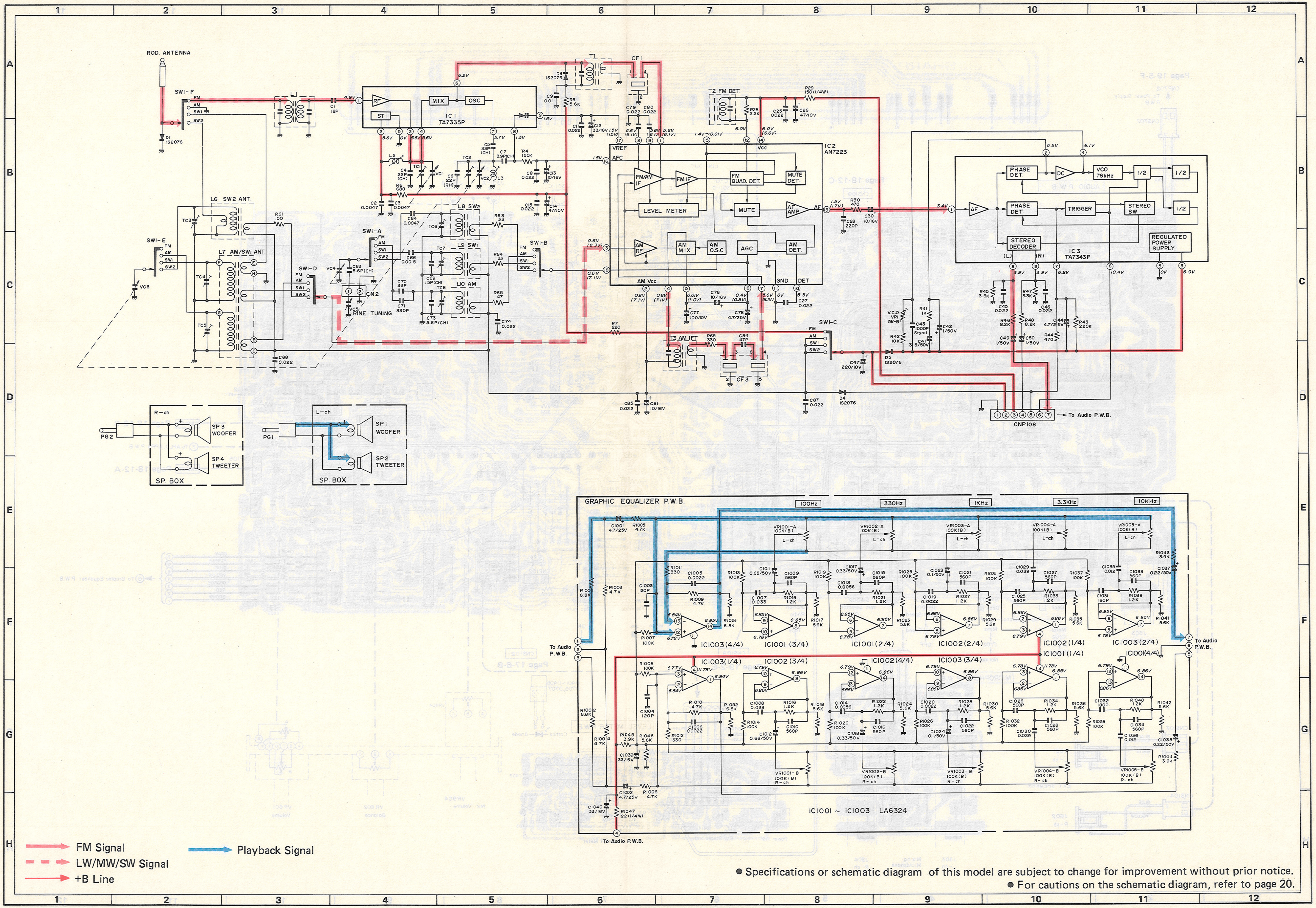

SHARP
F1573AF
Page 19-5-F
CNP702
To Power Supply P.W.B.
CNS702
BROWN
RED
AUDIO P.W.B.
Page 18-12-C
CNS109
Beat Cancell SW601
LINE OUT
L-ch J301-D
R-ch J301-E
SW301 INPUT SELECTOR
GND J301-C
LINE/PHONO INPUT
J301-A L-ch
J301-B R-ch
IC601
IC131
IC161
IC162
IC103
IC101
IC102
SW102 PLAY←→REC
CNP103
CNS103 Page 18-12-B
F To APLD, APPS P.W.B.
CNP105
CNS105 Page 18-12-A
CNP104
CNP107
CNP108
CNP102
GRAY
PURPLE
BLUE
YELLOW
ORANGE
RED
BROWN
G To Graphic Equalizer P.W.B.
J603 Headphones
SW101 Deck 1
SW103 Deck 2
Tape Selector
Metal CrO2 Normal
SW201 Dubbing High Speed Normal Speed OFF
SW302 Mic Selector ON OFF
SW104 Function Radio Tape Line/Phono
SW106 FM mode Mono Stereo
SW107 Rec mute ON OFF
CNS108 Page 19-2-E
CNS102 Page 17-6-B
MICROPHONE P.W.B.
J303 L-ch
Mixing Microphone
J304 R-ch
LEVEL METER P.W.B.
IC401
D401~D405 D705, D707
Cathode
Anode
Power ind
FM Stereo Ind
Level Meter
CNS107
BLACK
WHITE
J601 L-ch
EXT. SPEAKER
CNS104
BLUE
YELLOW
J602 R-ch
VR904 Mic. Volume
VR602 Balance
VR601 Volume
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H

Figure 13 WIRING SIDE OF P.W. BOARD


ROD. ANTENNA
SW1-F
IC1 TA7335P
RF
ST
MIX
OSC
CF1
T2 FM DET.
IC2 AN7223
FM/AM IF
FM IF
FM QUAD. DET.
MUTE DET.
LEVEL METER
MUTE
AF AMP
AM RF
AM MIX
AM O.S.C
AGC
AM DET.
IC3 TA7343P
PHASE DET.
DC
VCO 76kHz
1/2
TRIGGER
STEREO SW.
STEREO DECODER
REGULATED POWER SUPPLY
L6 SW2 ANT.
L7 AM/SW1 ANT.
L8 SW2
L9 SW1
L10 AM
SW1-A
SW1-B
SW1-C
SW1-D
SW1-E
FINE TUNING
T3 AM IFT
CF3
CNP108
To Audio P.W.B.
R-ch
L-ch
SP3 WOOFER
SP4 TWEETER
SP1 WOOFER
SP2 TWEETER
SP. BOX
PG1
PG2
GRAPHIC EQUALIZER P.W.B.
100Hz
330Hz
1KHz
3.3KHz
10KHz
IC1003(4/4)
IC1001(3/4)
IC1001(2/4)
IC1002(2/4)
IC1002(1/4)
IC1001(1/4)
IC1003(2/4)
IC1003(1/4)
IC1002(3/4)
IC1002(4/4)
IC1003(3/4)
IC1001(4/4)
IC1001 ~ IC1003 LA6324
To Audio P.W.B.

FM Signal
LW/MW/SW Signal
+B Line
Playback Signal

- Specifications or schematic diagram of this model are subject to change for improvement without prior notice.
- For cautions on the schematic diagram, refer to page 20.

Figure 15 SCHEMATIC DIAGRAM

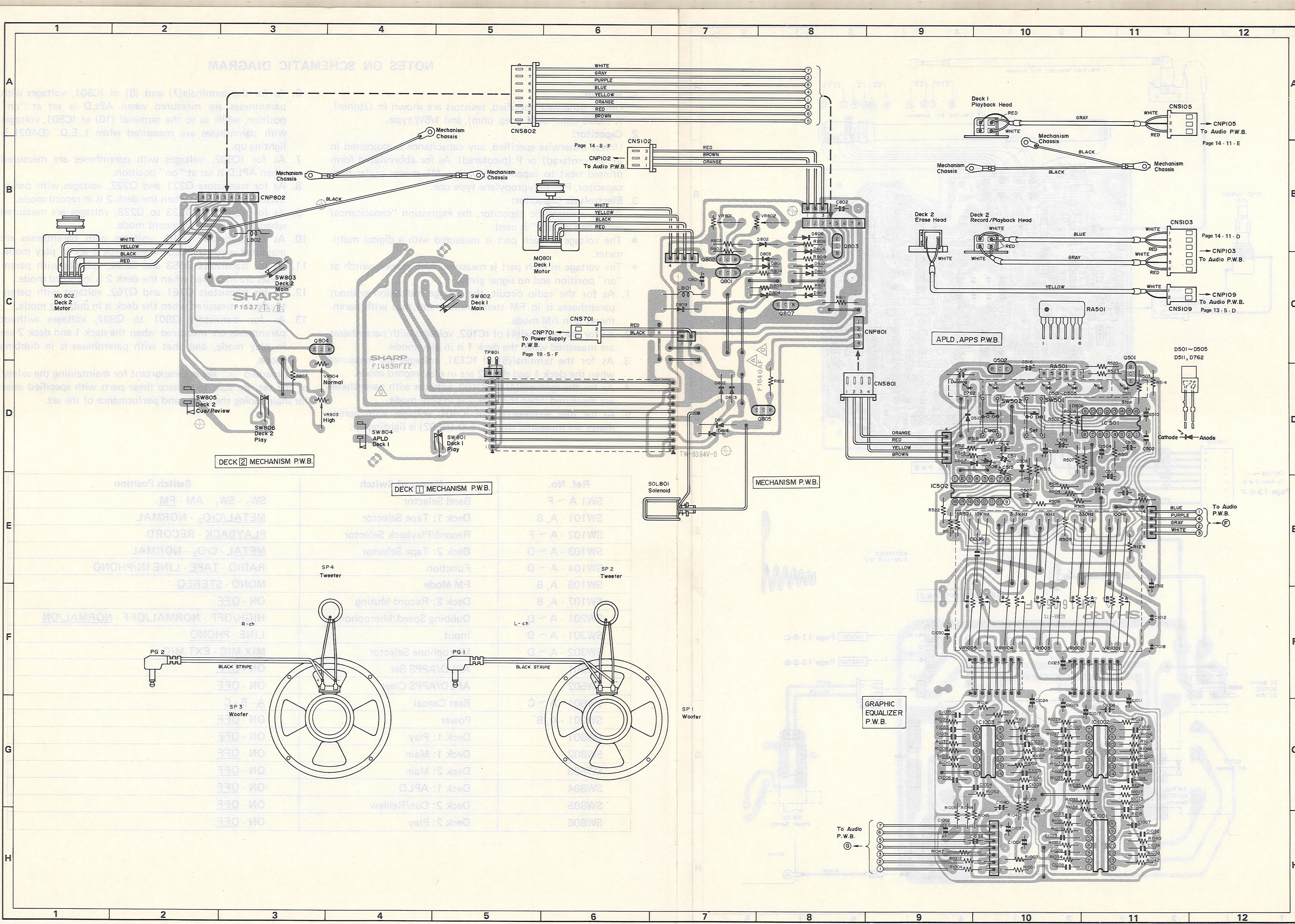

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
CNS802
WHITE
GRAY
PURPLE
BLUE
YELLOW
ORANGE
RED
BROWN
Mechanism Chassis
CNS102
Page 14 - 8 - F
CNP102 → To Audio P.W.B.
RED
BROWN
ORANGE
Mechanism Chassis
Mechanism Chassis
CNP802
BLACK
WHITE
YELLOW
BLACK
RED
L802
SW803 Deck 2 Main
MO 802 Deck 2 Motor
SHARP
F1537
MO801 Deck 1 Motor
SW802 Deck 1 Main
CNS701
CNP701 To Power Supply P.W.B.
Page 19 - 5 - F
TP801
SHARP
F1483AFZZ
Q804
R807
VR804 Normal
VR803 High
SW805 Deck 2 Cue/Review
SW806 Deck 2 Play
SW804 APLD Deck 1
SW801 Deck 1 Play
DECK 2 MECHANISM P.W.B.
DECK 1 MECHANISM P.W.B.
VR801
VR802
C802
R803
R802
D802
D803
D801
R804
R805
D806
R809
D805
R808
D810
D807
R801
D808
D804
Q802
Q801
Q803
C801
L801
D809
Q807
R811
CNP801
F1640AF
R812
D812
D813
D811
D814
Q805
CNS801
TW-8394V-0
SOL801 Solenoid
MECHANISM P.W.B.
ORANGE
RED
YELLOW
BROWN
Deck 1 Playback Head
RED
WHITE
GRAY
WHITE
RED
CNS105
→ CNP105 To Audio P.W.B.
Page 14 - 11 - E
Mechanism Chassis
BLACK
Mechanism Chassis
BLACK
Mechanism Chassis
Deck 2 Erase Head
Deck 2 Record/Playback Head
WHITE
BLUE
GRAY
WHITE
RED
CNS103
Page 14 - 11 - D
→ CNP103 To Audio P.W.B.
YELLOW
WHITE
CNS109
→ CNP109 To Audio P.W.B.
Page 13 - 5 - D
RA501
APLD, APPS P.W.B.
D501 ~ D505 D511, D762
Cathode
Anode
Q502
C516
RA501
R520
R523
Q501
R503
R514
C517
Dubbing
D762
SW502
D501~D505
SW501
D511
Stop
C510
Clear
Set
R502
R508
IC501
R518
R512
R515
C514
C509
C504
C505
C502
R513
R507
R501
IC502
C515
R516
R504
C506
C501
R522
R521 10KHz
3.3KHz
1KHz
330Hz
100Hz
R506
R505
R510
R509
C1036
R1216
BLUE
PURPLE
GRAY
WHITE
To Audio P.W.B.
F
C512
C1012
C1030
VR1005
VR1004
VR1003
VR1002
VR1001
C1018
C1023
GRAPHIC EQUALIZER P.W.B.
IC1003
IC1002
IC1001
To Audio P.W.B.
G
SP4 Tweeter
SP2 Tweeter
R-ch
L-ch
PG2
PG1
BLACK STRIPE
BLACK STRIPE
SP3 Woofer
SP1 Woofer

Figure 17 WIRING SIDE OF P.W. BOARD

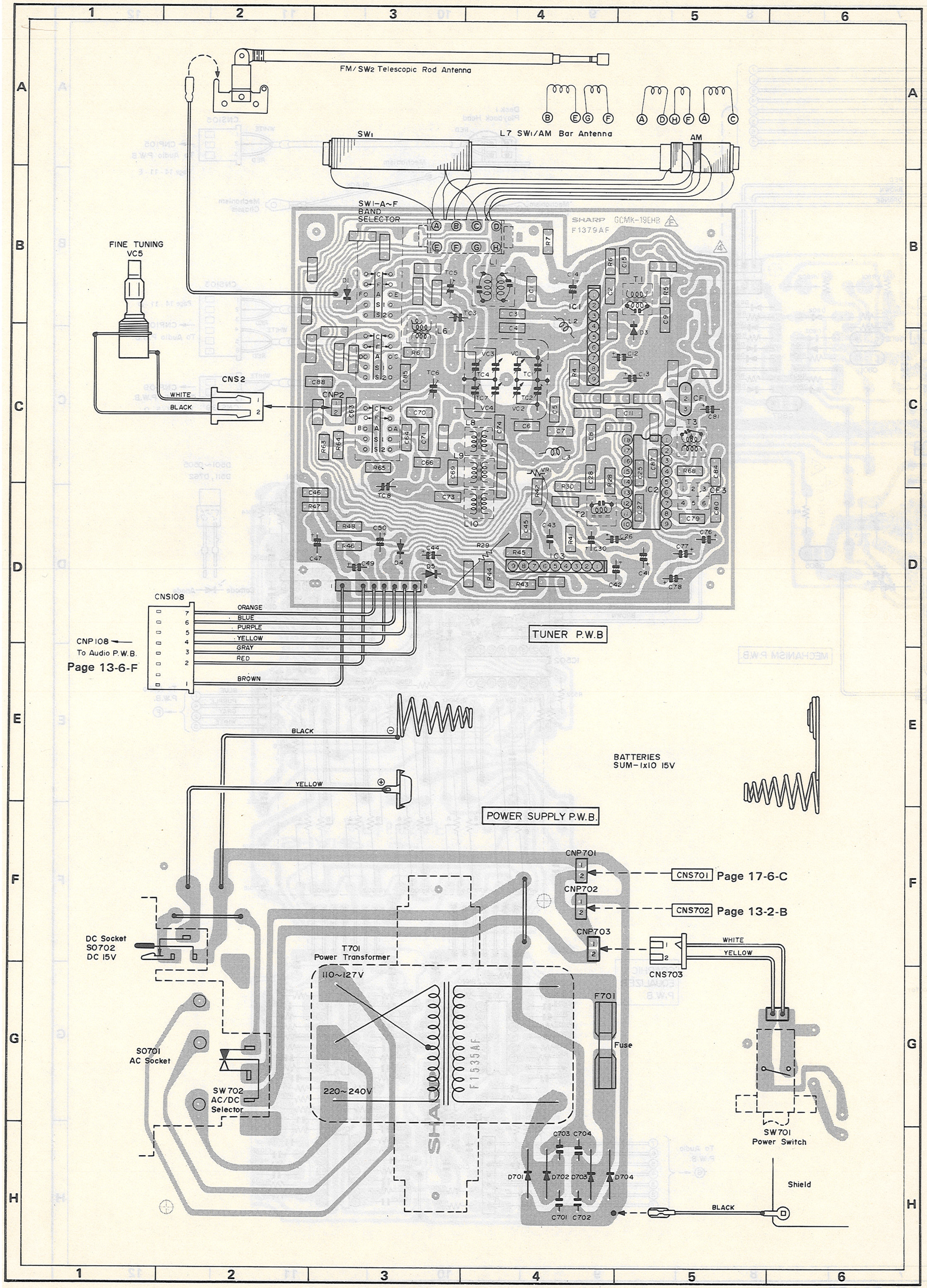

FM/SW2 Telescopic Rod Antenna
SW1
L7 SW1/AM Bar Antenna
AM
SW1-A~F BAND SELECTOR
SHARP
F1379AF
FINE TUNING VC5
CNS2
WHITE
BLACK
CNP2
CNS108
ORANGE
BLUE
PURPLE
YELLOW
GRAY
RED
BROWN
CNP108 To Audio P.W.B. Page 13-6-F
TUNER P.W.B
BLACK
YELLOW
BATTERIES SUM-1x10 15V
POWER SUPPLY P.W.B.
CNP701
CNP702
CNP703
CNS701 Page 17-6-C
CNS702 Page 13-2-B
CNS703
WHITE
YELLOW
DC Socket SO702 DC 15V
T701 Power Transformer
110~127V
220~240V
F701
Fuse
F1535AF
SO701 AC Socket
SW702 AC/DC Selector
SW701 Power Switch
Shield
BLACK
C703 C704
D701 D702 D703 D704
C701 C702
1
2
3
4
5
6
A
B
C
D
E
F
G
H

Figure 19 WIRING SIDE OF P.W. BOARD

NOTES ON SCHEMATIC DIAGRAM

1. **Resistor**
   Unless otherwise specified, resistors are shown in Ω(ohm), K (1000 ohm) of M (meg. ohm), and 1/6W type.
2. **Capacitor:**
   Unless otherwise specified, any capacitance is expressed in µF (microfarad) or P (picofarad). As for abbreviated form printed next to capacitor capacity, ML means mylar type capacitor, P.P. polypropylene type one.
3. **Electrolytic Capacitor:**
   As for electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

- The voltage in each part is measured with a digital multimeter.
- The voltage in each part is measured with power switch at "on" position and no signal given.

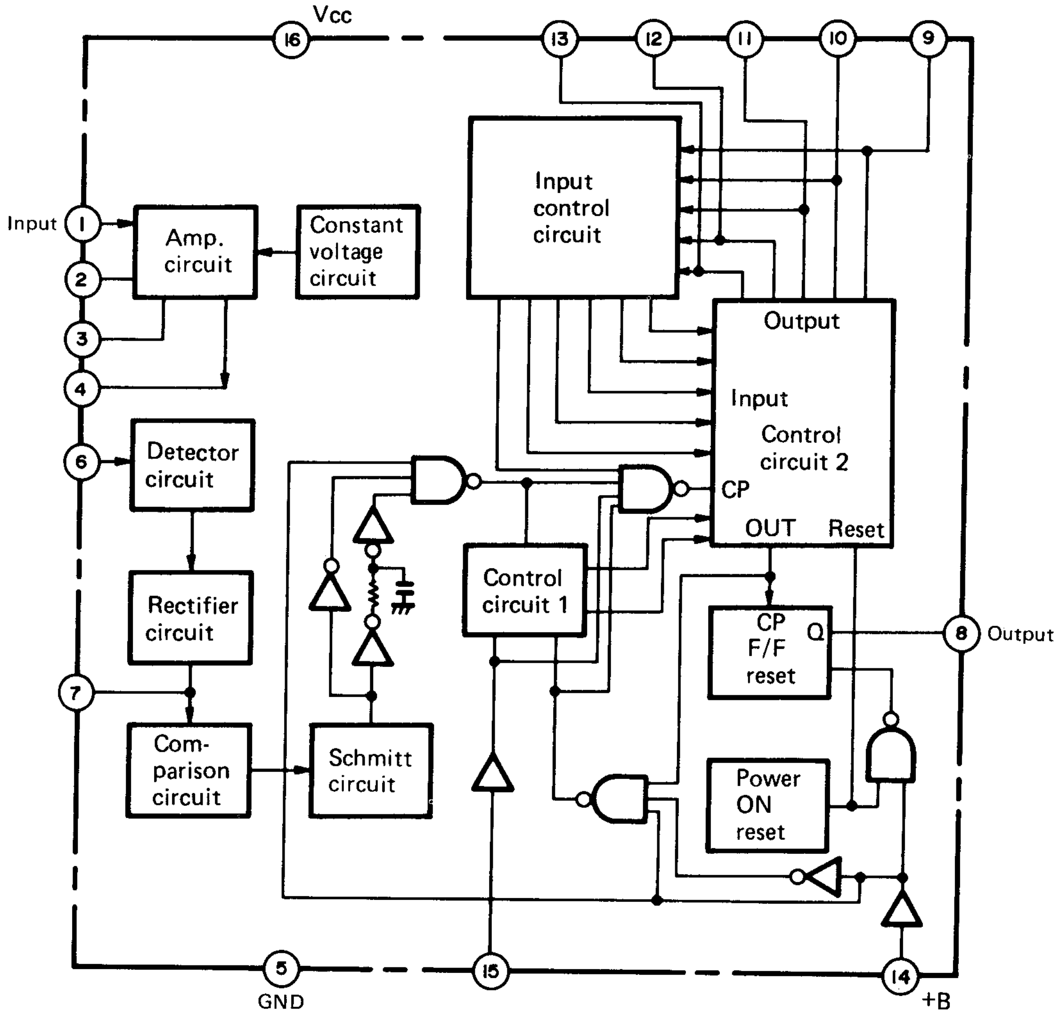
1. As for the radio circuit, the voltage indication without parentheses is in FM stereo mode, and that with parentheses is in AM mode.
2. As for the terminal(4) of IC102, voltages with parentheses are measured when the deck 1 is in play mode.
3. As for the terminal(5) of IC131, voltages are measured when the deck 1 and deck 2 are in play/record mode.
4. As for the terminal(4) of IC162, voltages with parentheses are measured when the deck 2 is in play mode.
5. As for ther terminal(10) of IC401, voltages with parentheses are measured when L.E.D.(D502) is lighting up.
6. As for the terminals(7) and (8) of IC501, voltages with parentheses are measured when APLD is set at "on" position, while as to the terminal (10) of IC501, voltages with parentheses are measured when L.E.D. (D402) is lighting up.
7. As for IC502, voltages with parentheses are measured when APLD is set at "on" position.
8. As for transistors Q221 and Q222, voltages with parentheses are measured when the deck 2 is in record mode.
9. As for transistors Q223 to Q228, voltages are measured when the deck 2 is in record mode.
10. As for transistor Q502, voltages with parentheses are measured when the deck 1 and deck 2 are in play mode.
11. As for transistors Q653 and Q654, voltages with parentheses are measured when the deck 2 is in record mode.
12. As for transistors Q761 and Q762, voltages with parentheses are measured when the deck is in dubbing mode.
13. As for transistors Q801 to Q807, voltages without parentheses are measured when the deck 1 and deck 2 are in play mode, and that with parentheses is in dubbing mode.

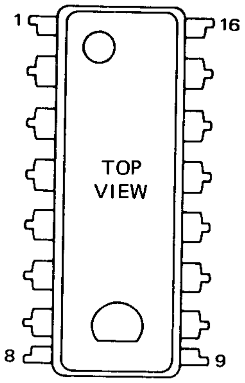
Parts marked "△" (■) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Ref. No.	Names of Switch	Switch Position
SW1 A ~ F	Band Selector	SW$_2$ - SW$_1$ - AM - FM
SW101 - A, B	Deck 1: Tape Selector	METAL/CrO_2 - NORMAL
SW102 - A ~ F	Record/Playback Selector	PLAYBACK - RECORD
SW103 - A ~ D	Deck 2: Tape Selector	METAL - CrO_2 - NORMAL
SW104 - A ~ D	Function	RADIO - TAPE - LINE IN/PHONO
SW106 - A, B	FM Mode	MONO - STEREO
SW107 - A, B	Deck 2: Record Muting	ON - OFF
SW201 - A ~ D	Dubbing Speed/Microphone	HIGH/OFF - NORMAL/OFF - NORMAL/ON
SW301 - A ~ D	Input	LINE - PHONO
SW302 - A ~ D	Microphone Selector	MIX MIC - EXT MIC
SW501	APLD/APPS Set	ON - OFF
SW502	APLD/APPS Clear	ON - OFF
SW601 - A ~ C	Beat Cancel	A - B - C
SW701 - A, B	Power	ON - OFF
SW801	Deck 1: Play	ON - OFF
SW802	Deck 1: Main	ON - OFF
SW803	Deck 2: Main	ON - OFF
SW804	Deck 1: APLD	ON - OFF
SW805	Deck 2: Cue/Review	ON - OFF
SW806	Deck 2: Play	ON - OFF

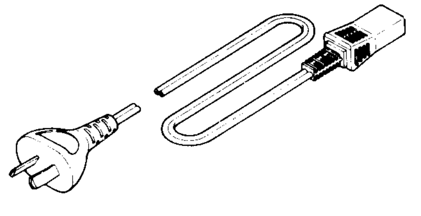
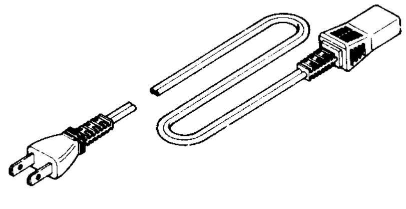
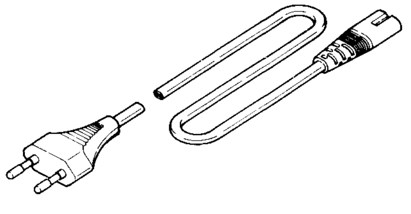
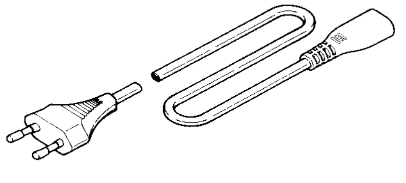
EQUIVALENT CIRCUIT OF INTEGRATED CIRCUIT

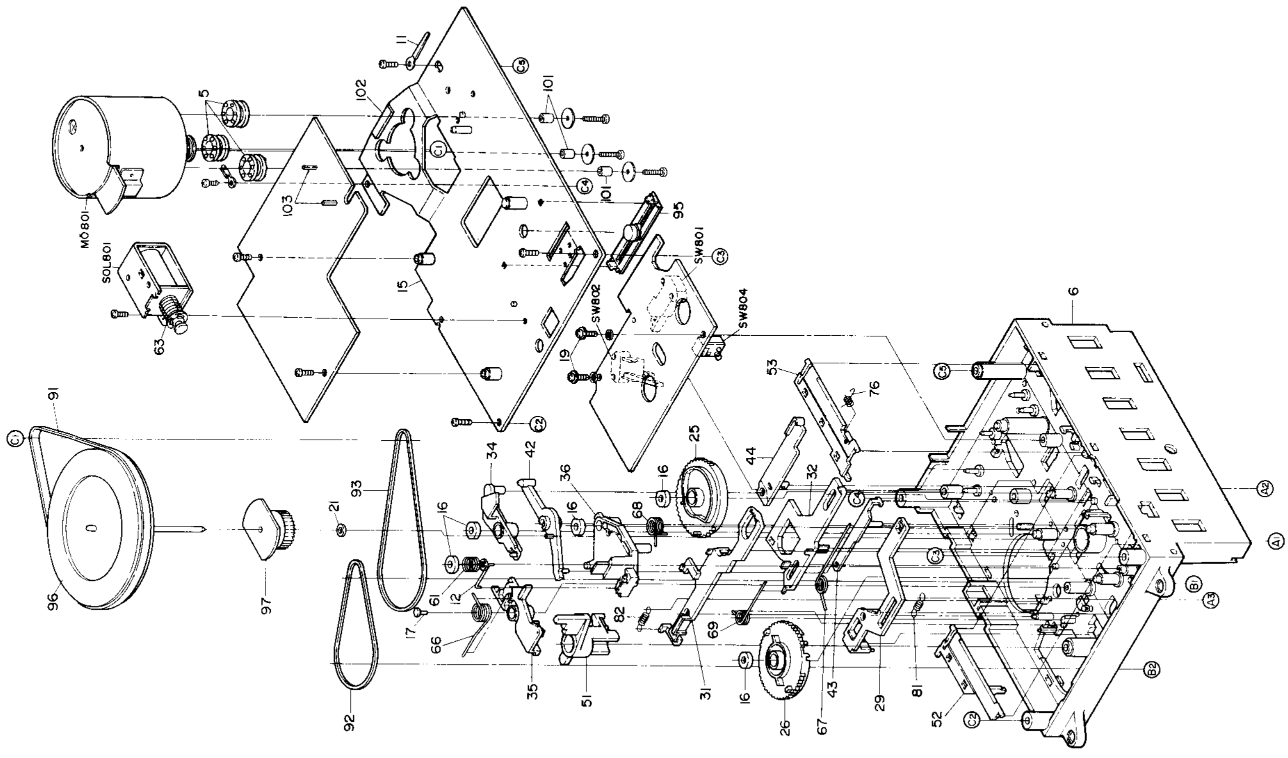
VHIIR3R20A/-1(IC501)


Vcc
16
13
12
11
10
9
Input
1
2
3
4
6
7
8
Output
5
GND
15
14
+B
Amp. circuit
Constant voltage circuit
Input control circuit
Output
Input
Control circuit 2
CP
OUT
Reset
Detector circuit
Rectifier circuit
Com-parison circuit
Schmitt circuit
Control circuit 1
CP F/F reset
Q
Power ON reset

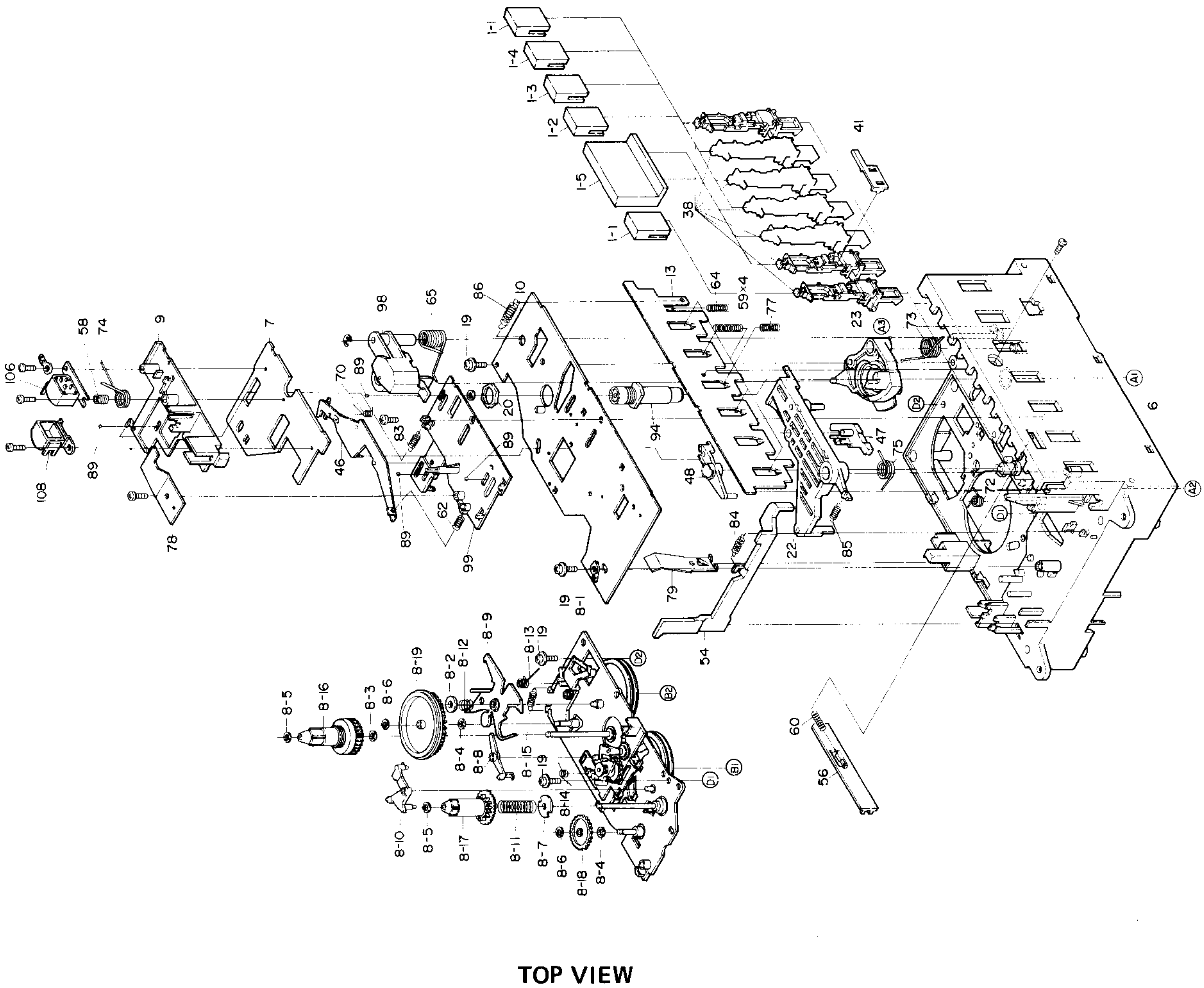

1
16
8
9
TOP VIEW

AC POWER SUPPLY CORD

QACCL0050AF00	QACCZ0051AF00	QACCK0050AFZZ
		
QACCZ0057AF00		
		


11
102
101
5
C3
C1
C4
103
95
M0801
SOL801
SW801
SW802
SW804
15
63
19
6
53
76
C5
C2
91
34
42
93
16
36
25
44
32
68
21
61
12
17
66
82
69
96
97
35
51
31
26
67
43
29
81
52
92
A1
A2
A3
B1
B2

BOTTOM VIEW


1-1
1-4
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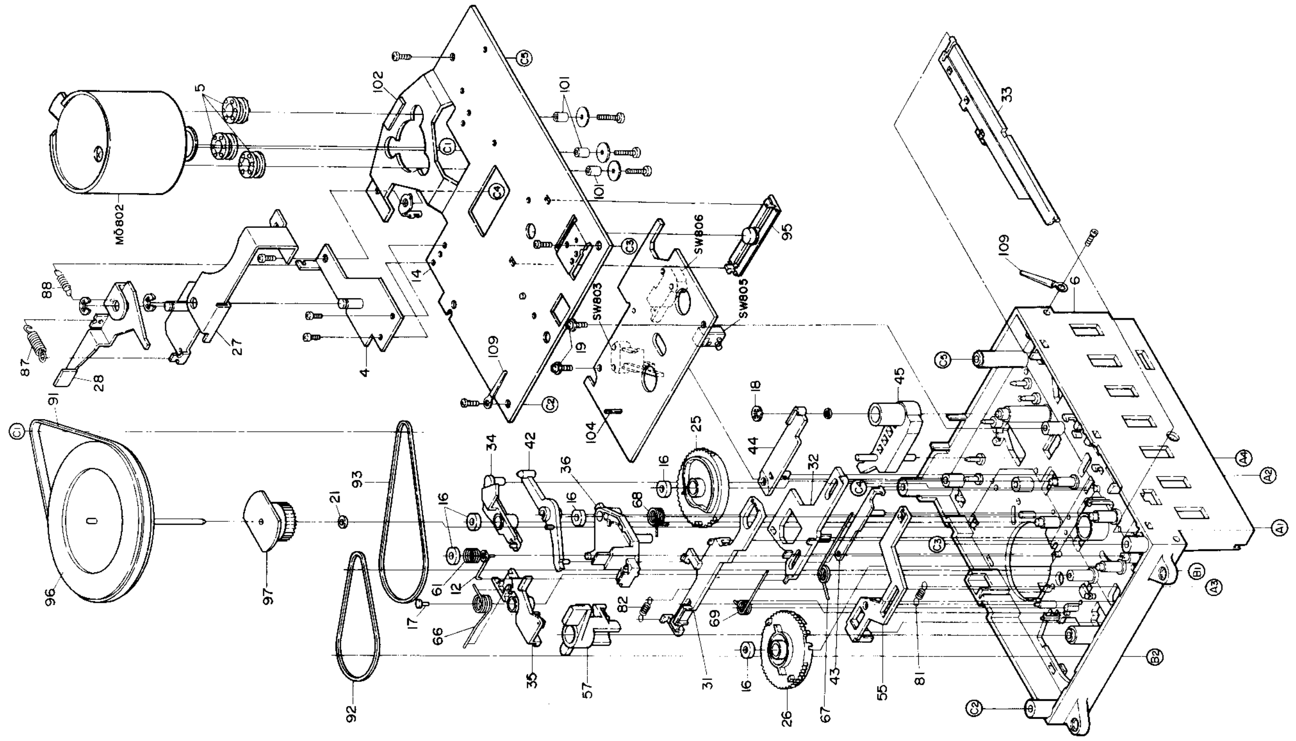
1-2
1-5
41
38
64
59×4
13
10
86
65
98
77
23
A3
73
19
70
89
20
94
9
58
74
7
106
108
78
46
83
62
99
8-1
48
47
75
72
D1
D2
A1
A2
6
84
22
85
79
54
60
56
8-9
8-13
8-12
8-2
8-19
8-3
8-6
8-16
8-5
B1
B2
8-4
8-8
8-15
8-14
8-10
8-17
8-11
8-7
8-18

TOP VIEW

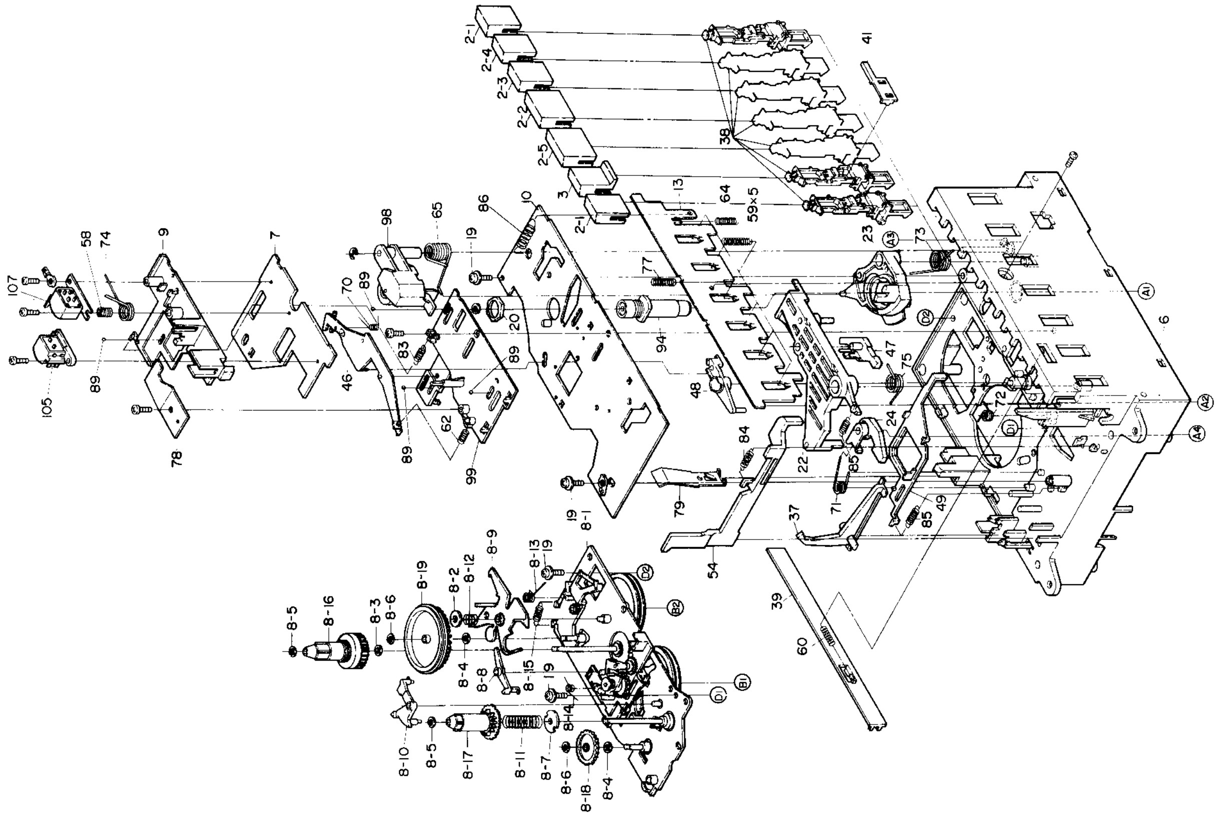
Figure 22 DECK 1 MECHANISM EXPLODED VIEW

1 2 3 4 5 6

A


M0802
5
102
101
101
33
88
87
28
27
4
14
109
19
95
SW806
SW803
SW805
104
109
6
91
93
96
97
21
16
61
12
17
66
35
57
92
34
42
16
36
82
31
69
16
26
16
25
68
18
44
45
32
43
67
55
81
C1
C2
C3
C4
C5
A1
A2
A3
A4
B1
B2

BOTTOM VIEW


2-1
2-4
2-3
2-2
2-5
3
2-1
41
38
13
64
59×5
23
73
A3
A1
D2
6
A2
A4
107
58
74
9
7
105
89
78
98
65
19
86
10
70
89
83
46
62
89
99
20
94
89
77
48
47
75
72
D1
24
22
84
79
85
71
49
85
37
54
39
60
19
8-1
8-5
8-16
8-3
8-6
8-19
8-2
8-12
8-9
8-13
19
8-4
8-8
8-15
19
8-14
D2
B2
B1
D1
8-10
8-5
8-17
8-11
8-7
8-6
8-18
8-4

TOP VIEW

H

Figure 23 DECK 2 MECHANISM EXPLODED VIEW

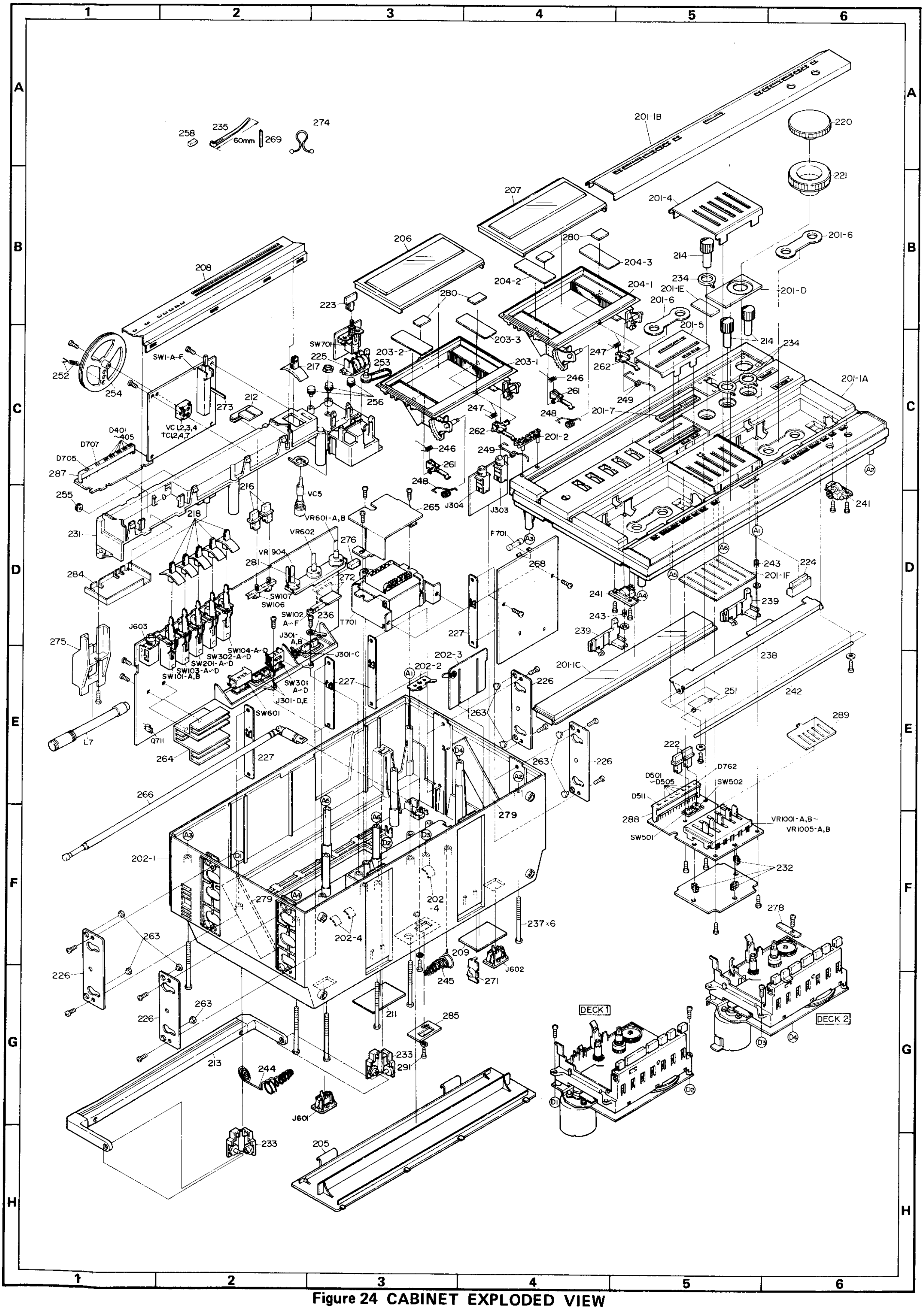

1
2
3
4
5
6
A
B
C
D
E
F
G
H
258
235
60mm
269
274
201-1B
220
221
207
201-4
206
280
201-6
208
214
204-3
234
204-2
204-1
201-1E
201-D
223
280
201-6
201-5
SW701
203-2
203-3
225
253
203-1
247
214
234
217
262
252
SW1-A-F
256
246
201-1A
254
273
212
261
249
VC1,2,3,4
TC1,2,4,7
247
248
201-7
D401
~405
262
201-2
D707
246
D705
249
287
261
248
255
216
VC5
J304
J303
A2
241
218
VR601-A,B
265
231
VR602
276
A3
A1
VR 904
F701
A6
243
224
284
281
272
268
201-1F
SW107
SW106
241
A4
239
SW102
A~F
236
A5
243
J603
T701
239
227
275
J301-
A,B
J301-C
202-3
201-1C
238
SW104-A~D
SW302-A~D
202-2
226
SW201-A~D
A1
SW103-A~D
SW101-A,B
227
SW301
A~D
251
J301-D,E
242
SW601
263
289
L7
Q711
264
227
D4
263
226
222
D501
~D505
D762
SW502
266
A2
A5
D511
279
288
VR1001-A,B~
VR1005-A,B
A6
SW501
A3
D2
D3
202-1
D1
232
A4
279
202
-4
278
202-4
237×6
263
226
209
245
271
J602
226
263
211
285
DECK1
DECK2
D3
D4
213
233
291
244
D2
J601
D1
233
205

Figure 24 CABINET EXPLODED VIEW

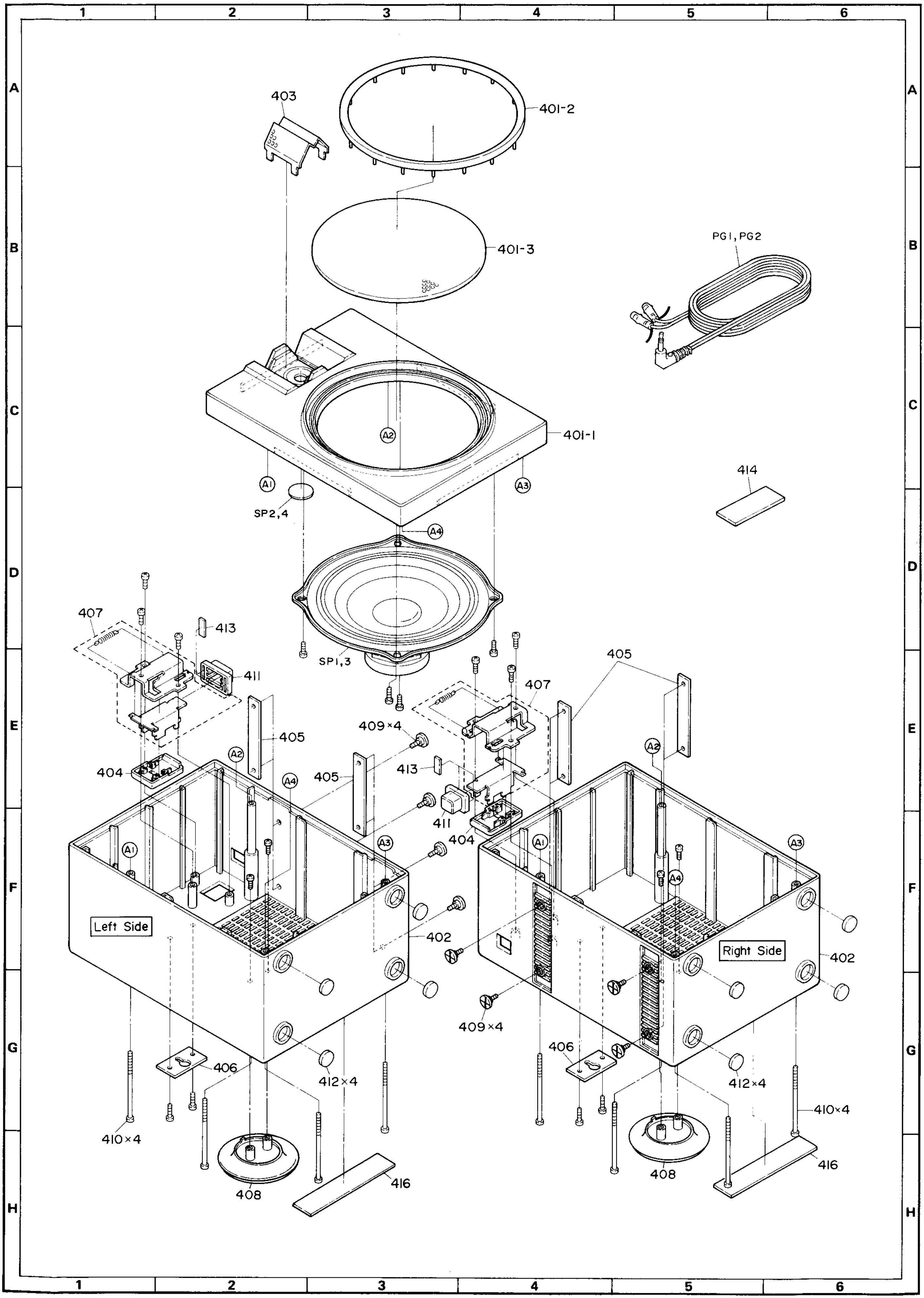

1
2
3
4
5
6
A
B
C
D
E
F
G
H
403
401-2
401-3
PG1, PG2
401-1
A2
A1
A3
A4
SP2,4
414
SP1,3
407
413
411
405
409×4
404
413
405
411
404
Left Side
Right Side
402
402
409×4
406
406
412×4
412×4
410×4
410×4
408
408
416
416

Figure 25 SPEAKER EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTES:

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

INTEGRATED CIRCUITS

REF.NO.	PART NO.	DESCRIPTION	CODE
IC1	VHITA7335P/-1	FM RF/OSC Amp. (TA7335P)	AG
IC2	VHIAN7223//-1	FM IF/AM Mixer, Oscillator, IF(AN7223)	AK
IC3	VHITA7343P/-1	FM Multiplex (TA7343P)	AG
IC101	RH-IX1079AFZZ	Deck1, Pre-amp. (M51521L)	AG
IC102	VHIM54512L/-1	Deck1, Metal Equalizer Selector/Muting (M54512)	AF
IC103	VHIM54512L/-1	Deck1, Metal Equalizer Selector/Normal Speed-High Speed Equalizer Selector (M54512L)	AF
IC131	VHIM51544L/-1	Line Amp. (M51544L)	AG
IC161	RH-IX1079AFZZ	Deck2, Pre-amp. (M51521L)	AG
IC162	VHIM54512L/-1	Deck2, Switching/Equalizer Selector (M54512L)	AF
IC401	VHILB1416//-1	Level Meter Amp. (LB1416)	AK
IC501	VHIIR3R20A/-1	APLD/APPS Circuit (IR3R20A)	AL
IC502	VHITD62504/-1	Not Circuit (TD62504)	AG
IC601	VHILA4505H/1F	Power Amp. (LA4505H)	AP
IC1001,1002, IC1003	VHILA6324//-1	Graphic Equalizer Amp. (LA6324)	AG

TRANSISTORS

REF.NO.	PART NO.	DESCRIPTION	CODE
Q221,222	VS2SC2603-F-1	Muting, Dubbing mode (2SC2603 F)	AB
Q223,224	VS2SC2458GR-1	Record Equalizer Amp. (2SC2458 GR)	AB
Q225,226	VS2SC2458GR-1	Switching, Normal Speed Record Equalizer (2SC2458 GR)	AB
Q301,302	VS2SC2485LGR1	Phono Amp. (2SC2458 LGR)	AB
Q351,352	VS2SC2458GR-1	Mixing Microphone Amp. (2SC2458 GR)	AB
Q401	VS2SC2458GR-1	Switching, Level Meter (2SC2458 GR)	AB
Q501	VS2SA1115-F-1	Power Supply, APLD/APPS Circuit (2SA1115 F)	AB
Q502	VS2SC2458GR-1	Switching, APPS End-Pause Indicator (2SC2458 GR)	AB
Q653,654	VS2SC1627Y/-A	Bias Oscillator (2SC1627 Y)	AC
Q711	VS2SC1061-C-1	Voltage Regulator (2SC1061 C)	AG
Q721	VS2SD471-L/-A	Voltage Regulator (2SD471 L)	AD
Q761	VS2SC2458GR-1	Switching, High Speed mode (2SC2458GR)	AB
Q762	VS2SC2458GR-1	Switching, Normal Speed mode (2SC2458 GR)	AB
Q801	VS2SB564-L/-A	Deck1, Motor Drive (2SB564 L)	AD
Q802	VS2SC945AP/-A	Deck1, Motor Control (2SC945 AP)	AB
Q803	VS2SB564-L/-A	Deck2, Motor Drive (2SB564 L)	AD
Q804	VS2SC945AP/-A	Deck2, Motor Control (2SC945 AP)	AB
Q805	VS2SC3247-J-A	Solenoid Drive (2SC3247 J)	AD
Q807	VS2SC945AP/-A	Deck1·Deck2 Motor Stop (2SC945 AP)	AB

DIODES

REF.NO.	PART NO.	DESCRIPTION	CODE
D1	VHD1S2076//-U	Static Protector (1S2076)	AB
D3	VHD1S2076//-U	FM Overload (1S2076)	AB
D4,5	VHD1S2076//-U	Reverse Current Prevention (1S2076)	AB
D401,402, D403,404, D405, D705, D707	RH-PX1046AFZZ	D401~405: Level Meter D705: Power Indicator D707: FM Stereo Indicator	AK
D406	VHD1SS119//-1	ALC (1SS119)	AA
D501,502, D503,504, D505, D511, D762	RH-PX1045AFZZ	D501~D505: APLD/APPS Programme-set Indicator D511: APPS End-Pause Indicator D762: Dubbing Indicator	AH
D506,507, D508,509	VHD1SS119//-1	Reverse Current Protector (1SS119)	AA
D510	VHD1SS119//-1	Forward Direction Voltage Absorber (1SS119)	AA
△ D701,702, D703,704	VHD10E-4///-1	Power Rectifier (10E4)	AB
D706	VHERD6R8JB2-1	Zener, 6.8V/400mW (RD6.8JB2)	AB
D721	VHERD100JB2-1	Zener, 9.4~10.6V/400mW(RD10JB2)	AB
D741	VHEHZ7C-2L/-1	Zener, 7.3~7.9V/400mW (HZ7C-2L)	AB
D751,752, D753,754	VHD1SS119//-1	Reverse Current Protector (1SS119)	AA
D756	VHD1SS119//-1	Reverse Current Protector (1SS119)	AA
D757	VHD1SS119//-1	Forward Direction Voltage Absorber (1SS119)	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
D801,802, D803,804, D805,806, D807,808, D809,810	VHD1SS119//-1	Reverse Current Protector (1SS119)	AA
D811	VHD10E-4///-1	Surge Absorber (10E4)	AB
D812,813, D814	VHD1SS119//-1	Reverse Current Protector (1SS119)	AA

FILTER

REF.NO.	PART NO.	DESCRIPTION	CODE
CF1,2	RFILF0080AFZZ	FM IF 10.7MHz	AD
CF3	RFILA0085AFZZ	AM IF 455kHz	AE

TRANSFORMERS

REF.NO.	PART NO.	DESCRIPTION	CODE
T1	RCILI0157AFZZ	FM IF	AC
T2	RCILI0312AFZZ	FM Detector	AC
T3	RCILI0310AFZZ	AM IF	AC
⚠ T701	RTRNP0923AFZZ	Power	AX

COILS

REF.NO.	PART NO.	DESCRIPTION	CODE
L1	RCILA0455AFZZ	Band Pass Filter	AC
L2	RCILR0364AFZZ	FM RF	AA
L3	RCILB0628AFZZ	FM Oscillator	AC
L6	RCILA0556AFZZ	SW_2 Antenna	AD
L7	RCILA0612AFZZ	AM/SW_1 Bar Antenna	AL
L8	RCILB0625AFZZ	SW_2 Oscillator	AC
L9	RCILB0624AFZZ	SW_1 Oscillator	AC
L10	RCILB0623AFZZ	AM Oscillator	AC
L221,222	RCILZ0129AFZZ	6.8mH	AC
L223,224	RCILB0610AFZZ	Bias Step-up	AD
L651	VP-CH102K0000	1mH	AB
L652	RCILB0671AFZZ	Bias Oscillator	AE
L801	VP-CH470K0000	47µH	AB
L802	VP-CF470K0000	47µH	AB

CONTROLS

REF.NO.	PART NO.	DESCRIPTION	CODE
TC3	RTO-H1072AFZZ	Trimmer, SW_2 Antenna	AC
TC5	RTO-H1072AFZZ	Trimmer, AM Antenna	AC
TC6	RTO-H1072AFZZ	Trimmer, SW_2 Oscillator	AC
TC8	RTO-H1072AFZZ	Trimmer, AM Oscillator	AC
VC1,2, VC3,4, TC1,2, TC4,7	RVC-R0083AFZZ	Variable Capacitor, Tuning with Trimmer TC:FM RF Trimmer TC2:FM Oscillator Trimmer TC4:SW_1 Antenna Trimmer TC7:SW_1 Oscillator Trimmer	AN
VC5	RVC-Z0054AFZZ	Fine Tuning	AG
VR1	RVR-M0343AFZZ	5K ohm(B), V.C.O. Adjust	AB
VR801	RVR-M0383AFZZ	20K ohm(B), Deck1 Normal Speed Adjust	AC
VR802	RVR-M0382AFZZ	5K ohm(B), Deck1 High Speed Adjust	AC
VR803	RVR-M0382AFZZ	5K ohm(B), Deck2 High Speed Adjust	AC
VR804	RVR-M0383AFZZ	20K ohm(B), Deck1 Normal Speed Adjust	AC
VR601-A,B, VR602, VR904	RVR-Z0154AFZZ	20K ohm(A), Volume Control 100K ohm(B), Balance Control 10K ohm(B), Microphone Volume Control	AP

REF.NO.	PART NO.	DESCRIPTION	CODE
VR1001-A,B VR1002-A,B VR1003-A,B VR1004-A,B VR1005-A,B	RVR-Z0155AFZZ	Graphic Equalizer Control 100K ohm(B), 100Hz 100K ohm(B), 330Hz 100K ohm(B), 1kHz 100K ohm(B), 3.3kHz 100K ohm(B), 10kHz	AV

RESISTORS ARRAY

REF.NO.	PART NO.	DESCRIPTION	CODE
RA501	RMPTC0045AFZZ	680 ohm×5	AB

ELECTROLYTIC CAPACITORS

Unless otherwise specified electrolytic capacitors are ±20% type.

REF.NO.	PART NO.	DESCRIPTION	CODE
C12	RC-EZA336AF1C	33MFD, 16V	AB
C13	RC-EZA106AF1C	10MFD, 16V	AB
C14,26	RC-EZA476AF1A	47MFD, 10V	AB
C30	RC-EZA106AF1C	10MFD, 16V	AB
C41	RC-EZA335AF1H	3.3MFD, 50V	AB
C42	RC-EZA105AF1H	1MFD, 50V	AB
C44	RC-EZA475AF1E	4.7MFD, 25V	AB
C47	RC-EZA227AF1A	220MFD, 10V	AB
C49,50	RC-EZA105AF1H	1MFD, 50V	AB
C76	RC-EZA106AF1C	10MFD, 16V	AB
C77	RC-EZA107AF1A	100MFD, 10V	AB
C78	RC-EZA475AF1E	4.7MFD, 25V	AB
C81	RC-EZA106AF1C	10MFD, 16V	AB
C101,102	VCAATA0JF475X	4.7MFD, 6.3V, +40−20%	AC
C109	RC-EZA476AF1A	47MFD, 10V	AB
C110	RC-EZV476AF1A	47MFD, 10V	AB
C113,114	RC-EZA475AF1H	4.7MFD, 50V	AB
C121	RC-EZV107AF1C	100MFD, 16V	AB
C123,124	RC-EZA105AF1H	1MFD, 50V	AB
C131,132	RC-EZA105AF1H	1MFD, 50V	AB
C135	RC-EZV476AF1A	47MFD, 10V	AB
C136	RC-EZA476AF1A	47MFD, 10V	AB
C139,140	RC-EZA475AF1E	4.7MFD, 25V	AB
C141	RC-EZA476AF1C	47MFD, 16V	AB
C142	RC-EZV227AF1E	220MFD, 25V	AC
C161,162	RC-EZA475AF1E	4.7MFD, 25V	AB
C163,164	RC-EZA476AF1A	47MFD, 10V	AB
C171	RC-EZA105AF1H	1MFD, 50V	AB
C172	RC-EZV105AF1H	1MFD, 50V	AB
C175	RC-EZV107AF1C	100MFD, 16V	AB
C176	RC-EZA105AF1C	1MFD, 16V	AB
C177	RC-EZY475AF1E	4.7MFD, 25V	AB
C221,222, C223,224, C233,234	RC-EZA106AF1C	10MFD, 16V	AB
C237	RC-EZV227AF1C	220MFD, 16V	AB
C301,302	VCEALV1HW474M	0.47MFD, 50V	AB
C305,306	RC-EZA474AF1E	0.47MFD, 25V	AB
C307,308	RC-EZA224AF1H	0.22MFD, 50V	AB
C309,310	RC-EZA474AF1H	0.47MFD, 50V	AB
C311	RC-EZV227AF1C	220MFD, 16V	AB
C351,352	RC-EZA475AF1E	4.7MFD, 25V	AB
C357,358	RC-EZA105AF1H	1MFD, 50V	AB
C359	RC-EZV227AF1C	220MFD, 16V	AB
C401	RC-EZV474AF1H	0.47MFD, 50V	AB
C402	RC-EZA474AF1H	0.47MFD, 50V	AB
C403	RC-EZA106AF1C	10MFD, 16V	AB
C404	RC-EZA335AF1H	3.3MFD, 50V	AB
C405	RC-EZA107AF1A	100MFD, 10V	AB
C406	RC-EZA107AF1E	100MFD, 25V	AB
C503	RC-EZV476AF1C	47MFD, 16V	AB
C504	RC-EZY105AF1H	1MFD, 50V	AB
C507	RC-EZA106AF1C	10MFD, 16V	AB
C508	RC-EZV224AF1H	0.22MFD, 50V	AB
C509	RC-EZY104AF1H	0.1MFD, 50V	AB
C510	RC-EZV475AF1E	4.7MFD, 25V	AB
C511	RC-EZY335AF1H	3.3MFD, 50V	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
C512	RC-EZT106AF1C	10MFD, 16V	AB
C513	RC-EZY475AF1E	4.7MFD, 25V	AB
C515	RC-EZT335AF1E	3.3MFD, 25V	AB
C516	RC-EZV106AF1C	10MFD, 16V	AB
C603	RC-EZS224AF1H	0.22MFD, 50V	AB
C604	VCEALA1HW224M	0.22MFD, 50V	AB
C605	RC-EZV227AF1C	220MFD, 16V	AB
C606,609, C610	RC-EZA107AF1A	100MFD, 10V	AB
C613,614	RC-EZA107AF1A	100MFD, 10V	AB
C615,616	RC-EZV108AF1C	1000MFD, 16V	AD
C617,618	RC-AZ1004AFZZ	0.22MFD, 25V	AC
C619	RC-EZW338AF1E	3300MFD, 25V	AH
C662	RC-EZA107AF1C	100MFD, 16V	AB
C711	RC-EZA475AF1E	4.7MFD, 25V	AB
C713	RC-EZA107AF1C	100MFD, 16V	AB
C723	RC-EZA106AF1E	10MFD, 25V	AB
C724	RC-EZA107AF1C	100MFD, 16V	AB
C801,802	RC-EZV476AF1E	47MFD, 25V	AB
C1001,1002	RC-EZY475AF1E	4.7MFD, 25V	AB
C1011	RC-EZY684AF1H	0.68MFD, 50V	AB
C1012	RC-EZT684AF1H	0.68MFD, 50V	AB
C1017	RC-EZY334AF1H	0.33MFD, 50V	AB
C1018	RC-EZT334AF1H	0.33MFD, 50V	AB
C1023,1024	RC-EZY104AF1H	0.1MFD, 50V	AB
C1037,1038	RC-EZY224AF1H	0.22MFD, 50V	AB
C1039,1040	RC-EZY336AF1C	33MFD, 16V	AB

CAPACITORS

* Tubular type ceramic capacitor is identified by the symbol MF of the part No. VCKYMF0000000; this MF does not mean the lead wire.

* Unless otherwise specified lead wired capacitors are semiconductor type.

REF.NO.	PART NO.	DESCRIPTION	CODE
C1	VCCSMF1HL180J	18PF, 50V, ±5%, Ceramic	AA
C2,3	VCTYMF1HV472K	0.0047MFD, 50V, ±10%, Semiconductor	AA
C4	VCCCMF1HH220J	22PF(CH), 50V, ±5%, Ceramic	AA
C5	VCCCMF1HH330J	33PF(CH), 50V, ±5%, Ceramic	AA
C6	VCCRMF1HH220J	22PF(RH), 50V, ±5%, Ceramic	AA
C7	VCCCMF1HH3R9C	3.9PF(CH), 50V, ±0.25PF, Ceramic	AA
C8	VCTYMF1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C9	VCTYMF1EX103N	0.01MFD, 25V, ±30%, Semiconductor	AA
C11,15	VCTYMF1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C25,27	VCTYMF1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C28	VCKYMF1HB221K	220PF, 50V, ±10%, Ceramic	AA
C43	VCQSMA1HL102J	1000PF, 50V, ±5%, Polyethylene Film	AB
C45,46	VCTYMF1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C63	VCCCMF1HH5R6D	5.6PF(CH), 50V, ±0.5PF, Ceramic	AA
C64	VCTYMF1HV472K	0.0047MFD, 50V, ±10%, Semiconductor	AA
C66	VCKYMF1HV152K	0.0015MFD, 50V, ±10%, Ceramic	AA
C69	VCCCMF1HH150J	15PF(CH), 50V, ±5%, Ceramic	AA
C70	VCKYMF1HL330J	33PF, 50V, ±5%, Ceramic	AA
C71	VCKYMF1HB331J	330PF, 50V, ±5%, Ceramic	AA
C73	VCCCMF1HH5R6D	5.6PF(CH), 50V, ±0.5PF, Ceramic	AA
C74,79,80	VCTYMF1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C84	VCCSMF1HL470J	47PF, 50V, ±5%, Ceramic	AA
C85,87,88	VCTYMF1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C103,104	VCCSPA1HL271J	270PF, 50V, ±10%, Ceramic	AA
C107,108	VCKYPA1HB221K	220PF, 50V, ±10%, Ceramic	AA
C111,112	VCTYPA1EX223J	0.022MFD, 25V, ±5%, Semiconductor	AA
C115,116, C119,120	VCTYPA1EX123J	0.012MFD, 25V, ±5%, Semiconductor	AA
C117,118	VCTYPA1EX153J	0.015MFD, 25V, ±5%, Semiconductor	AA
C133,134	VCKYDT1HB681K	680PF, 50V, ±10%, Ceramic	AA
C143	VCTYPV1EX333M	0.033MFD, 25V, ±20%, Semiconductor	AA
C165,166	VCKYDT1HB221K	220PF, 50V, ±10%, Ceramic	AA
C167,168	VCKYDT1HB391K	390PF, 50V, ±10%, Ceramic	AA
C169,170	VCTYPA1EX223J	0.022MFD, 25V, ±5%, Semiconductor	AA
C173,174	VCTYPA1EX273J	0.027MFD, 25V, ±5%, Semiconductor	AB
C225,226	VCTYPA1EX223J	0.022MFD, 25V, ±5%, Semiconductor	AA
C227,228	VCTYPA1EX273J	0.027MFD, 25V, ±5%, Semiconductor	AA
C229,230	VCTYPA1EX562J	0.0056MFD, 25V, ±5% Semiconductor	AA
C231,232	VCTYPA1EX562J	0.0056MFD, 25V, ±5%, Semiconductor	AA
C235,236	VCCSPA1HL331K	330PF, 50V, ±10%, Ceramic	AA
C303	VCTYPV1EX102K	0.001MFD, 25V, ±10%, Semiconductor	AB
C304	VCTYPA1EX102K	0.001MFD, 25V, ±10%, Semiconductor	AA
C353,354	VCKYDT1HB221K	220PF, 50V, ±10%, Ceramic	AA
C355,356	VCKYDT1HB331K	330PF, 50V, ±10%, Ceramic	AA
C407,408	VCTYPV1EX222M	0.0022MFD, 25V, ±20%, Semiconductor	AA
C409	VCTYAT1CY223N	0.022MFD, 16V, ±30%, Semiconductor	AA
C501	VCTYPV1EX104K	0.1MFD, 25V, ±10%, Semiconductor	AA
C502	VCCSPV1HL821J	820PF, 50V, ±5%, Ceramic	AB
C505	VCCCPV1HH6R0C	6PF(CH), 50V, ±0.25PF, Ceramic	AB
C514	VCTYPA1EX473K	0.047MFD, 25V, ±10%, Semiconductor	AA
C517	VCKYDT1HB102K	0.001MFD, 50V, ±10%, Ceramic	AA
C601,602	VCTYPA1EX122K	0.0012MFD, 25V, ±10%, Semiconductor	AA
C611,612	VCTYPA1EX103K	0.01MFD, 25V, ±10%, Semiconductor	AA
C621,622	VCCSPA1HL151J	150PF, 50V, ±5%,	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
C623,624	VCTYPA1EX390J	39PF, 25V, ±5%, Semiconductor	AA
C625	VCKZPU1HF104Z	0.1MFD, 50V, +80−20%, Ceramic	AA
C651	VCTYPA1EX562K	0.0056MFD, 25V, ±10%, Semiconductor	AA
C652,653	VCTYPA1EX392J	0.0039MFD, 25V, ±5%, Semiconductor	AA
C654	VCQYKA1HM103J	0.01MFD, 50V, ±5%, Mylar	AB
C659	VCQPKQ2AA272J	0.0027MFD, 100V, ±5%, Polypropylene	AB
C660	VCQPKQ2AA471J	470PF, 100V, ±5%, Polypropylene	AB
C661	VCCSPV1HL820J	82PF, 50V, ±5%, Ceramic	AA
C663	VCTYPA1EX103K	0.01MFD, 25V, ±10%, Semiconductor	AA
C701,702, C703,704	VCKZPV1HF103Z	0.01MFD, 50V, +80 −20%, Ceramic	AA
C714	VCTYPA1EX103K	0.01MFD, 25V, ±10%, Semiconductor	AA
C721,722	VCKZPV1HF103Z	0.01MFD, 50V, +80−20%, Ceramic	AA
C741	VCTYAT1EX103K	0.01MFD, 25V, ±10%, Semiconductor	AA
C743,744	VCTYAT1EX123K	0.012MFD, 25V, ±10%, Semiconductor	AA
C1003,1004	VCKYDT1HB121K	120PF, 50V, ±10%, Ceramic	AA
C1005,1006	VCTYDT1EX222M	0.0022MFD, 25V, ±20%, Semiconductor	AA
C1007,1008	VCTYPA1EX333K	0.033MFD, 25V, ±10%, Semiconductor	AA
C1009,1010	VCKYDT1HB561K	560PF, 50V, ±10%, Ceramic	AA
C1013,1014	VCTYAT1EX562K	0.0056MFD, 25V, ±10%, Semiconductor	AA
C1015,1016	VCKYDT1HB561K	560PF, 50V, ±10%, Ceramic	AA
C1019,1020	VCTYDT1EX222M	0.0022MFD, 25V, ±20%, Semiconductor	AA
C1021,1022, C1025,1026, C1027,1028	VCKYDT1HB561K	560PF, 50V, ±10%, Ceramic	AA
C1029,1030	VCTYPA1EX393K	0.039MFD, 25V, ±10%, Semiconductor	AA
C1031,1032	VCKYDT1HB181K	180PF, 50V, ±10%, Ceramic	AA
C1033,1034	VCKYDT1HB561K	560PF, 50V, ±10%, Ceramic	AA
C1035,1036	VCTYAT1EX123K	0.012MFD, 25V, ±10%, Semiconductor	AA

RESISTORS

* Tubular type carbon film resistor (1/4W, ±5%) is identified by the symbol MF of the part No. VRD-MF0000000; this MF does not mean lead wire.

* Unless otherwise specified lead wired resistors are 1/6W, ±5%, Carbon type.

REF.NO.	PART NO.	DESCRIPTION	CODE
R4	VRD-MF2EE154J	150K ohm	AA
R5	VRD-MF2EE562J	5.6Kohm	AA
R6	VRD-MF2EE681J	680 ohm	AA
R7	VRD-MF2EE221J	220 ohm	AA
R28	VRD-MF2EE222J	2.2K ohm	AA
R29	VRD-RG2EE151J	150 ohm, 1/4W, ±5%, Carbon	AA
R30	VRD-MF2EE471J	470 ohm	AA
R41	VRD-MF2EE102J	1K ohm	AA
R42	VRD-MF2EE103J	10K ohm	AA
R43	VRD-MF2EE224J	220K ohm	AA
R44	VRD-MF2EE471J	470 ohm	AA
R45,47	VRD-MF2EE332J	3.3K ohm	AA
R46,48	VRD-MF2EE822J	8.2K ohm	AA
R61	VRD-MF2EE101J	100 ohm	AA
R63,64	VRD-MF2EE330J	33 ohm	AA
R65	VRD-MF2EE470J	47 ohm	AA
R68	VRD-MF2EE331J	330 ohm	AA
R103,104	VRD-ST2CD121J	120 ohm	AA
R105,106	VRD-ST2CD273J	27K ohm	AA
R107,108	VRD-ST2CD154J	150K ohm	AA
R109,110	VRD-ST2CD562J	5.6K ohm	AA
R111,112	VRD-ST2CD332J	3.3K ohm	AA
R113,114	VRD-ST2CD104J	100K ohm	AA
R115,116, R117,118	VRD-ST2CD332J	3.3K ohm	AA
R119,120	VRD-ST2CD472J	4.7K ohm	AA
R121,122	VRD-ST2CD153J	15K ohm	AA
R125	VRD-ST2CD561J	560 ohm	AA
R126	VRD-ST2CD273J	27K ohm	AA
R127,128	VRD-ST2CD103J	10K ohm	AA
R129,130	VRD-ST2CD102J	1K ohm	AA
R131,132	VRD-ST2CD223J	22K ohm	AA
R133,134	VRD-ST2CD103J	10K ohm	AA
R135,136	VRD-ST2CD222J	2.2K ohm	AA
R137,138	VRD-ST2CD471J	470 ohm	AA
R141,142	VRD-ST2CD473J	47K ohm	AA
R145,146	VRD-ST2CD222J	2.2K ohm	AA
R153	VRD-ST2CD331J	330 ohm	AA
R154	VRD-ST2CD332J	3.3K ohm	AA
R155	VRD-ST2CD562J	5.6K ohm	AA
R156	VRD-ST2CD333J	33K ohm	AA
R161,162	VRD-ST2CD100J	10 ohm	AA
R163,164	VRD-ST2CD273J	27K ohm	AA
R165,166	VRD-ST2CD151J	150 ohm	AA
R167,168	VRD-ST2CD562J	5.6K ohm	AA
R169,170	VRD-ST2CD154J	150K ohm	AA
R171,172	VRD-ST2CD332J	3.3K ohm	AA
R173,174	VRD-ST2CD332J	3.3K ohm	AA
R175,176	VRD-ST2CD470J	47 ohm	AA
R177,178	VRD-ST2CD153J	15K ohm	AA
R179	VRD-ST2CD561J	560 ohm	AA
R180	VRD-ST2CD223J	22K ohm	AA
R181,182	VRD-ST2CD102J	1K ohm	AA
R221,222	VRD-ST2CD103J	10K ohm	AA
R225,226	VRD-ST2CD394J	390K ohm	AA
R227,228	VRD-ST2CD154J	150K ohm	AA
R229,230	VRD-ST2CD562J	5.6K ohm	AA
R231,232	VRD-ST2CD222J	2.2K ohm	AA
R233,234	VRD-ST2CD153J	15K ohm	AA
R235,236	VRD-ST2CD332J	3.3K ohm	AA
R237,238	VRD-ST2CD272J	2.7K ohm	AA
R239,240	VRD-ST2CD151J	150 ohm	AA
R241,242	VRD-ST2CD473J	47K ohm	AA
R247,248	VRD-ST2CD153J	15K ohm	AA
R249,250	VRD-ST2CD682J	6.8K ohm	AA
R251,252	VRD-ST2CD393J	39K ohm	AA
R253	VRD-ST2EE221J	220 ohm, 1/4W, ±5%, Carbon	AA
R301,302	VRD-ST2CD223J	22K ohm	AA
R303,304	VRD-ST2CD105J	1Meg ohm	AA
R305,306	VRD-ST2CD330J	33 ohm	AA
R307,308	VRD-ST2CD271J	270 ohm	AA
R309,310	VRD-ST2CD681J	680 ohm	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
R313,314	VRD-ST2CD392J	3.9K ohm	AA
R315,316	VRD-ST2CD683J	68K ohm	AA
R317	VRD-ST2CD822J	8.2K ohm	AA
R318	VRD-RU2EE822J	8.2K ohm, 1/4W, ±5%, Carbon	AA
R319,320	VRD-ST2CD682J	6.8K ohm	AA
R321	VRD-ST2CD102J	1K ohm	AA
R353,354	VRD-ST2CD332J	3.3K ohm	AA
R355,356	VRD-ST2CD471J	470 ohm	AA
R357,358	VRD-ST2CD684J	680K ohm	AA
R359,360	VRD-ST2CD220J	22 ohm	AA
R361,362	VRD-ST2CD272J	2.7K ohm	AA
R365	VRD-ST2CD102J	1K ohm	AA
R366,367	VRD-ST2CD103J	10K ohm	AA
R383,384	VRD-ST2CD333J	33K ohm	AA
R401,402	VRD-ST2CD103J	10K ohm	AA
R403,404, R405,406, R407	VRD-ST2CD151J	150 ohm	AA
R408	VRD-ST2CD104J	100K ohm	AA
R409	VRD-ST2CD103J	10K ohm	AA
R410	VRD-ST2CD682J	6.8K ohm	AA
R411	VRD-ST2CD272J	2.7K ohm	AA
R412	VRD-ST2CD824J	820K ohm	AA
R413,414	VRD-ST2CD103J	10K ohm	AA
R415	VRD-ST2EE101J	100 ohm, 1/4W, ±5%, Carbon	AA
R417,418	VRD-ST2CD273J	27K ohm	AA
R501	VRD-ST2CD683J	68K ohm	AA
R502	VRD-ST2CD104J	100K ohm	AA
R503	VRD-ST2EE820J	82 ohm, 1/4W, ±5%, Carbon	AA
R504	VRD-ST2CD331J	330 ohm	AA
R505	VRD-ST2CD562J	5.6K ohm	AA
R506	**VRD-ST2CD101J**	**100 ohm**	AA
R507	VRD-ST2CD271J	270 ohm	AA
R508	VRD-ST2CD182J	1.8K ohm	AA
R509,510	VRD-ST2CD392J	3.9K ohm	AA
R511	**VRD-ST2CD474J**	**470K ohm**	AA
R512	VRD-ST2CD103J	10K ohm	AA
R513	VRD-ST2CD473J	47K ohm	AA
R514	VRD-ST2CD682J	6.8K ohm	AA
R515	**VRD-ST2CD274J**	**270K ohm**	AA
R516	**VRD-ST2CD183J**	**18K ohm**	AA
R517	**VRD-ST2CD152J**	**1.5K ohm**	AA
R518	VRD-ST2CD103J	10K ohm	AA
R519	VRD-ST2CD222J	2.2K ohm	AA
R520	VRD-ST2EE391J	390 ohm, 1/4W, ±5%, Carbon	AA
R521	VRD-ST2CD473J	47K ohm	AA
R522	VRD-ST2CD273J	27K ohm	AA
R523	VRD-ST2EE181J	180 ohm, 1/4W, ±5%, Carbon	AA
R601,602	VRD-ST2CD102J	1K ohm	AA
R603,604	VRD-ST2CD392J	3.9K ohm	AA
R605,606	VRD-ST2CD333J	33K ohm	AA
R607,608	VRD-ST2CD331J	330 ohm	AA
R609,610	VRD-ST2CD271J	270 ohm	AA
R611,612	VRD-ST2EE221J	220 ohm, 1/4W, ±5%, Carbon	AA
R651	VRD-ST2EE151J	150 ohm, 1/4W, ±5%, Carbon	AA
R652	VRD-ST2EE680J	68 ohm, 1/4W, ±5%, Carbon	AA
R653	VRD-ST2EE8R2J	8.2 ohm, 1/4W, ±5%, Carbon	AA
R656,657	VRD-ST2CD183J	18K ohm	AA
R658,659	VRD-ST2CD4R7J	4.7 ohm	AA
R662	VRD-ST2CD1R0J	1 ohm	AA
R663,664	VRD-ST2CD183J	18K ohm	AA
⚠ R701	VRG-ST2EG2R2J	2.2 ohm, 1/4W, ±5%, Fusible	AB
⚠ R702	VRG-ST2EC100J	10 ohm, 1/4W, ±5%, Fusible	AB
R705	VRD-ST2CD471J	470 ohm	AA
R706	VRD-ST2CD102J	1K ohm	AA
R711	VRD-ST2CD102J	1K ohm	AA
R721	VRD-ST2CD471J	470 ohm	AA
R741	VRD-RU2EE221J	220 ohm, 1/4W, ±5%, Carbon	AA
R743	VRD-RU2EE822J	8.2K ohm, 1/4W, ±5%, Carbon	AA
R744	VRD-ST2CD822J	8.2K ohm	AA
R745	VRD-RU2EE821J	820 ohm, 1/4W, ±5%, Carbon	AA
R746	VRD-ST2CD821J	820 ohm	AA
R747,748	VRD-ST2CD473J	47K ohm	AA
R752	VRD-ST2CD153J	15K ohm	AA
R754	VRD-ST2EE122J	1.2K ohm, 1/4W, ±5%, Carbon	AA
R755	VRD-ST2CD103J	10K ohm	AA
R761	VRD-ST2CD332J	3.3K ohm	AA
R762	VRD-ST2CD473J	47K ohm	AA
R763	VRD-ST2CD332J	3.3K ohm	AA
R765	VRD-ST2CD103J	10K ohm	AA
R766	VRD-ST2CD153J	15K ohm	AA
R767	VRD-ST2CD103J	10K ohm	AA
R772	VRD-ST2CD103J	10K ohm	AA
R780,781	VRD-ST2CD822J	8.2K ohm	AA
R801	VRD-ST2CD224J	220K ohm	AA
R802	VRD-ST2CD223J	22K ohm	AA
R803	VRD-ST2CD101J	100 ohm	AA
R804	VRD-ST2CD102J	1K ohm	AA
R805	VRD-ST2CD224J	220K ohm	AA
R807	VRD-ST2EE223J	22K ohm, 1/4W, ±5%, Carbon	AA
R808	VRD-ST2CD101J	100 ohm	AA
R809	VRD-ST2CD102J	1K ohm	AA
R811	VRD-ST2CD103J	10K ohm	AA
R812	VRD-ST2CD222J	2.2K ohm	AA
R1001,1002	**VRD-ST2CD682J**	**6.8K ohm**	AA
R1003,1004, R1005,1006	VRD-ST2CD472J	4.7K ohm	AA
R1007,1008	VRD-ST2CD104J	100K ohm	AA
R1009,1010	VRD-ST2CD472J	4.7K ohm	AA
R1011,1012	VRD-ST2CD331J	330 ohm	AA
R1013,1014	VRD-ST2CD104J	100K ohm	AA
R1015,1016	VRD-ST2CD122J	1.2K ohm	AA
R1017,1018	VRD-ST2CD562J	5.6K ohm	AA
R1019,1020	VRD-ST2CD104J	100K ohm	AA
R1021,1022	VRD-ST2CD122J	1.2K ohm	AA
R1023,1024	VRD-ST2CD562J	5.6K ohm	AA
R1025,1026	VRD-ST2CD104J	100K ohm	AA
R1027,1028	VRD-ST2CD122J	1.2K ohm	AA
R1029,1030	VRD-ST2CD562J	5.6K ohm	AA
R1031,1032	VRD-ST2CD104J	100K ohm	AA
R1033,1034	VRD-ST2CD122J	1.2K ohm	AA
R1035,1036	VRD-ST2CD562J	5.6K ohm	AA
R1037,1038	VRD-ST2CD104J	100K ohm	AA
R1039,1040	VRD-ST2CD122J	1.2K ohm	AA
R1041,1042	VRD-ST2CD562J	5.6K ohm	AA
R1043,1044, R1045	VRD-ST2CD392J	3.9K ohm	AA
R1046	VRD-ST2CD562J	5.6K ohm	AA
R1047	VRD-ST2EE220J	22 ohm, 1/4W, ±5%, Carbon	AA
R1051,1052	VRD-ST2CD682J	6.8K ohm	AA
	VRD-MF2EE000C	0 ohm (Jumper)	AA

OTHER CIRCUITRY PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
CNP2	QCNCM462BAFZZ	Plug, 2Pin	AA
CNP102	QCNCM584CAFZZ	Plug, 3Pin	AA
CNP103	QCNCM132FAFZZ	Plug, 6Pin	AD
CNP104	QCNCM095BAFZZ	Plug, 2Pin	AB
CNP105	QCNCM136CAFZZ	Plug, 3Pin	AB
CNP107	QCNCM462BAFZZ	Plug, 2Pin	AA
CNP108	QCNCM0705SGZZ	Plug, 7Pin	AC
CNP109	QCNCM095BAFZZ	Plug, 2Pin	AB
CNP701,702	QCNCM131BAFZZ	Plug, 2Pin	AC
CNP703	QCNCM476BAFZZ	Plug, 2Pin	AB
CNP801	QCNCM604DAFZZ	Plug, 4Pin	AB
CNP802	QCNCM589HAFZZ	Plug, 8Pin	AB
CNS2	CCNCW334BAF09	2Pin Socket Assembly	
CNS102	QCNW-1787AFZZ	3Pin Board in Plug/3Pin Socket Assembly	AG
CNS103/ CNS109	QCNW-1763AFZZ	6Pin Socket/2Pin Socket Assembly	AE
CNS104/ CNS107	QCNW-1747AFZZ	2Pin Socket/2Pin Sócket Assembly	AG
CNS105	QCNW-1758AFZZ	3Pin Socket with Wire Leads	AE
CNS108	CCNCW491HAF10	7Pin Board in Plug/7Pin Socket Assembly	AK
CNS701	QCNW-1756AFZZ	2Pin Board in Plug/2Pin Socket Assembly	AE
CNS702	CCNCW485BAF09	2Pin Board in Plug/2Pin Socket Assembly	AE
CNS703	CCNCW485BAF08	2Pin Board in Plug/2Pin Socket Assembly	AE
CNS801	QCNW-1753AFZZ	4Pin/7Pin/4Pin Board in Plug/4Pin Socket Assembly	AK
CNS802	QCNW-1760AFZZ	8Pin Board in Plug/8Pin Socket Assembly	AG
⚠F701	QFS-C202EAFNI	Fuse, T2.0A	AD
J301-A,B, J301-C, J301-D,E	QJAKZ0162AFZZ	Line/Phono Input Sockets Earth Terminal Line Output Sockets	AH
J303,304	QJAKE0111AFZZ	Mixing Microphone Sockets	AD
J601,602	QJAKE0100AFZZ	Speaker Socket	AD
J603	QJAKJ0123AFZZ	Headphones Socket	AF
MO801,802	RMOTV0110AF10	Motor with Motor Pulley	AW
⚠SO701,702	QSOCE0561AFZZ	AC Power Supply Socket/ External DC Power Supply Socket	AH
SOL801	RPLU-0158AFZZ	Solenoid	AM
SW1-A~F	QSW-B0152AFZZ	Switch, Band Selector	AM
SW101-A,B	QSW-B0165AFZZ	Switch, Deck1 Tape Selector	AF
SW102-A~F	QSW-S0382AFZZ	Switch, Record/Playback	AF
SW103-A~D	QSW-B0173AFZZ	Switch, Deck2 Tape Selector	AF
SW104-A~D	QSW-B0166AFZZ	Switch, Function	AG
SW106, SW107	QSW-P0455AFZZ	Switch, FM Mode Switch, Deck2 Record Muting	
SW201-A~D	QSW-B0166AFZZ	Switch, Dubbing Speed/ Microphone	AG
SW301-A~D	QSW-S0309AFZZ	Switch, Input	AF
SW302-A~D	QSW-B0180AFZZ	Switch, Microphone Selector	AE
SW501	QSW-K0050AFZZ	Switch, APLD/APPS Set	AC
SW502	QSW-K0050AFZZ	Switch, APLD/APPS Clear	AC
SW601	QSW-S0332AFZZ	Switch, Beat Cancell	AE
SW701	QSW-P0446AFZZ	Switch, Power	AG
⚠SW702	QSOCE0561AFZZ	Assembly Switch, AC/DC Selector	AH
SW801	QSW-F0148AFZZ	Switch, Deck1 Main	AE
SW802	QSW-F0137AFZZ	Switch, Deck1 Play	AE
SW803	QSW-F0148AFZZ	Switch, Deck2 Main	AE
SW804	QSW-F0171AFZZ	Switch, Deck1 APLD	AC
SW805	QSW-F0187AFZZ	Switch, Cue/Review	AC
SW806	QSW-F0137AFZZ	Switch, Deck2 Play	AE
TP801	QCNCM431BAFZZ	Plug, 2Pin	AA
	CCNCW486CAF06	3Pin/2Pin Board in Plug Assembly	AG
	CCNCW486CAF07	3Pin/3Pin Board in Plug Assembly, 320mm	AH
	CCNCW486CAF08	3Pin/3Pin Board in Plug Assembly, 290mm	AH
	CCNCW486CAF09	3Pin Board in Plug Assembly	AE
	CCNCW489FAF10	8Pin/6Pin/3Pin Board in Plug Assembly	AQ
	QCNW-1750AFZZ	4Pin/4Pin Board in Plug Assembly	AF
	QCNW-1753AFZZ	4Pin×4/7Pin×2 Board in Plug Assembly	AK

MECHANICAL PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
1	JBOTN0113AFZZ	Deck1, Button Block Assembly	AN
1-1	JKNBM0462AFSA	Button, Eject/Pause	AE
1-2	JKNBM0463AFSA	Button, Stop	AE
1-3	JKNBM0464AFSA	Button, Rewind	AE
1-4	JKNBM0465AFSA	Button, Fast Forward	AE
1-5	JKNBM0466AFSA	Button, Play	AE
2	JBOTN0114AFZZ	Deck2, Button Block Assembly	AN
2-1	JKNBM0462AFSA	Button, Eject/Pause	AE
2-2	JKNBM0463AFSA	Button, Stop	AE
2-3	JKNBM0464AFSA	Button, Rewind	AE
2-4	JKNBM0465AFSA	Button, Fast Forward	AE
2-5	JKNBM0467AFSA	Button, Play	AE
3	JKNBM0468AFSA	Deck2, Button, Record	AC
4	LANGZ0111AFZZ	Bracket, Record Conversion Lever Fulcrum	AD
5	LBSHS0001AG00	Cushion Gum, Motor	AA
6	LCHSM0412AFZZ	Main Chassis	
7	LCHSS0171AFFW	Plate, Head Base	
8	LCHSZ0125AFZZ	Take-up/Supply Turntable Block Assembly	AU
8-1	LCHSZ0113AFZZ	Chassis, Take-up/Supply Turntable	AG
8-2	LRTNP0051AFZZ	Retaining Ring, Sensor Lever	
8-3	LX-WZ5018AGZZ	Washer, 2.1mm Dia. ×4mm Dia.×0.25mm	AA
8-4	LX-WZ5048AGZZ	Washer, 1.7mm Dia. ×4mm Dia.×0.25mm	AA
8-5	LX-WZ9064AFZZ	Washer, 1.5mm Dia. ×3.8mm Dia.×0.5mm	AA
8-6	LX-WZ9073AFZZ	Washer, 1.2mm Dia. ×3.2mm Dia.×0.5mm	AA
8-7	LX-WZ9074AFZZ	Washer, Back Tension	AA
8-8	MARMP0018AF00	Lever, Fast Forward Interlocking	AC
8-9	MLEVP0366AFZZ	Lever, Auto Stop Sensor	AB
8-10	MLEVP0375AFZZ	Lever, Rewind Interlocking	AF
8-11	MSPRC0279AFFJ	Spring, Back Tension	AA
8-12	MSPRC0311AFFJ	Spring, Auto Stop Sensor Lever	AA
8-13	MSPRD0548AFFJ	Spring, Playback Idler Pressure	AA
8-14	MSPRD0405AFFJ	Spring, Stop Lever	AA
8-15	MSPRT0850AFFJ	Spring, Playback Idler Return	AA
8-16	NDAIR0157AFZZ	Turntable, Take-up	AF
8-17	NDAIR0161AFZZ	Turntable, Supply	AD
8-18	NGERH0081AFZZ	Gear, Rewind	AC
8-19	NIDR-0079AFZZ	Idler, Playback	AD
9	LDAIH0056AF00	Head Base	AB
10	LDAIH0057AFZZ	Sub-chassis, Head Base	AD
11	LHLDW9003CEZZ	Wire Holder	AA
12	LPINZ0055AFZZ	Pin, Pause Lever	AA
13	LPLTM0116AFFW	Plate, Operation Lever Retaining	AC
14	**LPLTM0122AFFW**	Bracket, Deck2 Motor Retaining	AG
15	LPLTM0122AF00	Bracket, Deck1 Motor Retaining	AH
16	LRTNP0050AFZZ	Stop Ring, Lever	
17	LSLVM0135AFFW	Pin, Pause Cam Lock Lever	AD
18	LSTWC4004AFZZ	Stop Ring, Deck2, 4mm Dia.	AA
19	LX-HZ0077AFZZ	Screw, 2.6mm Dia. × 10mm Dia.	AA
20	LX-NZ0146AFZZ	Nut, Capstan Bearing Retaining	AC
21	LX-WZ9053AFZZ	Washer	AA
22	MARMP0015AFZZ	Arm, P.A.D. Cam Gear	AC
23	MARMP0016AFZZ	Arm, Pause Cam Gear	AB
24	MARMP0017AF00	Arm, Deck2 Record Operation Sensor	AB
25	MCAMP0056AF00	Cam Gear, P.A.D.	AC
26	MCAMP0057AF00	Cam Gear, Pause	AC
27	MLEVF1430AFZZ	Lever, Record Conversion	AC
28	MLEVF1445AFFW	Lever, Record/Playback Selector	AC
29	MLEVP0344AF00	Lever, Deck1 Lock Release	AB
31	MLEVP0345AF00	Lever, Fast Forward	AB
32	MLEVP0346AF00	Lever, Rewind	AB
33	MLEVP0347AF00	Plate, Deck2 Lock	AC
34	MLEVP0348AF00	Lever, P.A.D. Cam Gear Lock	AB
35	MLEVP0349AF00	Lever, Pause Cam Gear Lock	AB
36	MLEVP0350AF00	Lever, Pause	AB
37	MLEVP0351AF00	Lever, Deck2 Erase Prevention	AB
38	MLEVP0352AF00	Lever, Operation	AA
39	MLEVP0353AF00	Plate, Deck2 Operation Lever Blocking	AB
41	MLEVP0354AF00	Lever, One-touch Interlocking	AA
42	MLEVP0355AF00	Lever, Main Switch Interlocking	AA
43	MLEVP0356AF00	Lever, Main Switch Retaining	AB
44	MLEVP0357AF00	Lever, Playback	AB
45	MLEVP0358AFZZ	Lever, Deck2 Record Interlocking	AC
46	MLEVP0360AF00	Lever, Brake	AB
47	MLEVP0361AF00	Lever, APLD Switch Interlocking	AA
48	MLEVP0362AF00	Lever, Fast Forward/ Rewind Interlocking	AA
49	MLEVP0364AF00	Lever, Deck2 Record	AB
51	MLEVP0365AF00	Lever, Deck1 Solenoid Interlocking	AB
52	MLEVP0387AF00	Plate, Deck1 Lock	AC
53	MLEVP0388AF00	Plate, Deck1 Lock	AC
54	MLEVP0409AF00	Lever, Eject	AB
55	MLEVP0412AF00	Lever, Deck2 Lock Release	AB
56	MLEVP0413AF00	Plate, Deck1 Operation Lever Blocking	AB
57	MLEVP0414AF00	Lever, Deck2 Solenoid Interlocking	AB
58	MSPRC0230AFFJ	Spring, Head Azimuth Adjust	AB
59	MSPRC0268AFFJ	Spring, Operation Lever	AA
60	MSPRC0269AFFJ	Spring, Operation Lever Blocking Plate	AA
61	MSPRC0270AFFJ	Spring, Pause Lock Pin Retaining	AA
62	MSPRC0271AFFJ	Spring, Brake Lever Pressure	AA
63	MSPRC0276AFFJ	Spring, Deck1 Solenoid Return	AA
64	MSPRC0289AFFJ	Spring, Pause Operation Lever	AA
65	MSPRD0464AFFJ	Spring, Pinch Roller Pressure	AB
66	MSPRD0388AFFJ	Spring, Pause Cam Lock Lever	AA
67	MSPRD0389AFFJ	Spring, Pause Cam Gear	AA
68	MSPRD0390AFFJ	Spring, Pause Lever Return	AA
69	MSPRD0391AFFJ	Spring, Rewind Lever	AC
70	MSPRD0393AFFJ	Spring, Auto Stop Sensor Control	AA
71	MSPRD0394AFFJ	Spring, Deck2 Record Sensor Arm	AA
72	MSPRD0395AFFJ	Spring, Playback Lever Return	AA
73	MSPRD0396AFFJ	Spring, Pinch Roller Return	AA
74	MSPRD0397AFFJ	Spring, Head Base Pressure	AA
75	MSPRD0398AFFJ	Spring, Fast Forward/ Rewind Interlocking Lever	AA
76	MSPRD0420AFFJ	Spring, Deck1 Operation Lever Lock Plate	AA
77	MSPRC0356AFFJ	Spring, Stop Operation Lever	AC
78	MSPRP0300AFFW	Plate Spring, Head Plate Retaining	AA
79	MSPRP0320AFFJ	Spring, Cassette Retaining	AA
81	MSPRT0835AFFJ	Spring, Lock Release Lever	AA
82	MSPRT0836AFFJ	Spring, Fast Forward/ Record Button Lever Return	AA
83	MSPRT0837AFFJ	Spring, Head Base Return	AA
84	MSPRT0838AFFJ	Spring, Cassette Lever Return	AA
85	MSPRT0839AFFJ	Spring, P.A.D. Cam Interlocking Arm	AA
86	MSPRT0911AFFJ	Spring, Earth	AA
87	MSPRT0931AFFJ	Spring, Deck2 Record Conversion	AB
88	MSPRT0968AFFJ	Spring, Deck2 Record/ Playback Selector Lever	AB
89	NBALS0006AGFJ	Steel Ball, 2mm Dia.	AA
91	NBLTH0088AF00	Belt, Flywheel Drive	AC
92	NBLTK0208AFZZ	Belt, Playback	AB
93	NBLTK0228AF00	Belt, Fast Forward/Rewind	AC
94	NBRGC0079AFZZ	Bearing, Capstan	AE
95	NBRGP0062AF00	Bearing, Flywheel Thrust	AA
96	NFLYC0098AFZZ	Flywheel	AK
97	NGERH0080AF00	Gear, P.A.D. Cam Drive	AD
98	NROLY0059AFZZ	Pinch Roller	AE
99	PGIDM0101AF00	Guide, Cassette	AC
101	PSPAA0055AFFW	Spacer, Motor	AB
102	PSPAG0105AFZZ	Gum, Motor	AA
103	QLUGP0111CEFW	Lug Terminal, 13mm	AA
105	RHEDA0103AFZZ	Head, Deck2 Erase	AH

REF.NO.	PART NO.	DESCRIPTION	CODE
106	RHEDF0078AFZZ	Head, Deck1 Playback	AM
107	RHEDH0118AFZZ	Head, Deck2 Record/ Playback	AM
108	RHEDZ0055AFZZ	Head, Deck1 Sitter	AD
109	LHLDW3056AFZZ	Wire Holder	AA

CABINET EXPLODED VIEW PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
201	CCAB-1174AF01	Front Cabined Combined Assembly	
201-1	GCAB-1174AFSA	Front Cabinet Semi-combined Assembly	BA
△ 201-1A	GCABA1746AFSA	Front Cabinet	AX
201-1B	HINDM1562AFSA	Indication Plate, Mechanism	AP
201-1C	HPNLD1220AFSA	Window, Dial Plate	AG
201-1D	HPNLD1226AFSA	Tuning Panel (Large)	AE
201-1E	HPNLD1228AFSA	Tuning Panel (Small)	AH
201-1F	PFLT-0538AFSA	Felt, Graphic Equalizer	AA
201-2	HBDGB1057AFSA	SHARP Badge	AD
201-4	HINDM1563AFSA	Indication Plate, Graphic Equalizer	AH
201-5	HINDM1564AFSA	Indication Plate, APLD/ APPS	AG
201-6	HINDP0590AFSA	Mirror, Cassette Compartment	AB
201-7	HPNLH1054AFSA	Window, APLD/APPS Indicator	AC
202	CCABB1746AF01	Rear Cabined Combined Assembly	
△ 202-1	GCABB1746AFSA	Rear Cabinet	AY
202-2	LANGQ0861AFFW	Bracket, Rod Antenna Retaining	AB
202-3	PSLDM3282AFZZ	Shield Plate	AC
202-4	PFLT-0553AF00	Felt, Battery Compartment	AB
203	GFTAC1275AFSA	Deck1, Cassette Compartment Combined Assembly	AK
203-1	GFTAC1251AFSA	Cassette Compartment	AF
203-2	HDECB0203AFSA	Decoration Plate, Left	AC
203-3	HDECB0217AFSA	Decoration Plate, Right	AB
204	GFTAC1276AFSA	Deck2, Cassette Compartment Combined Assembly	AK
204-1	GFTAC1251AFSA	Cassette Compartment	AF
204-2	HDECB0209AFSA	Decoration Plate, Left	AC
204-3	HDECB0219AFSA	Decoration Plate, Right	AB
205	GFTAB1138AFSA	Battery Compartment	AH
206	GFTAC1280AFSA	Transparent Plate, Deck1 Cassette Compartment	AL
207	GFTAC1281AFSA	Transparent Plate, Deck2 Cassette Compartment	AL
208	HDALM0433AFSA	Dial Plate	AM
△ 209	HINDP0635AFSA	Specifications, Though this is a part of the rear cabinet combined assembly (Ref.No.202), it can be provided by itself.	AB
△ 211	HINDP0636AFSA	Caution Label, Though this is a part of the rear cabinet combined assembly (Ref.No.202), it can be provided by itself.	AB
△ 211	HINDP0637AFSA	Caution label (for PX), Though this is a part of the rear cabinet combined assembly (Ref. No.202), it can be provided by itself.	AB
212	HSSND0313AFSA	Dial Pointer	AD
213	JHNDG1087AFSA	Handle	AS
214	JKNBK0217AFSA	Knob, Balance/Volume Control	AE
215	JKNBK0243AFSA	Knob, Microphone Volume	AE
216	**JKNBK0281AFSB**	Knob, FM Mode/Deck2 Record Muting	AD
217	**JKNBK0287AFSB**	Knob, Band Selector	AD
218	**JKNBK0288AFSB**	Knob, Tape Selector/ Dubbing Speed/ Microphone Selector/ Function	AD
220	JKNBK0293AFSA	Knob, Fine Tuning	AD
221	JKNBK0294AFSA	Knob, Tuning	AE
222	**JKNBR0207AFSB**	Knob, APLD/APSS Set Clear	AD
223	JKNBR0208AFSA	Knob, Power Switch	AB
224	JKNBZ0300AFSA	Knob, Dubbing Start Button	AE
225	KCOUB0139AFSA	Deck2, Digital Tape Counter	AH
226	LANGF0740AFSA	Bracket, Speaker Retaining	AE
227	LANGK0308AFZZ	Bracket, Speaker Retaining	AC
231	LHLDF1278AFSA	Frame	AK
232	LHLDF1286AFZZ	Holder, P.W.Board	AA
233	LHLDL1056AFSA	Holder, Handle	AC
234	LHLDS1056AFZZ	Spacer, Control Knob	AC
235	LHLDW1075AFZZ	Nylon Band, 60mm	AA
236	LHLDW9003CEZZ	Wire Holder	AA
237	LX-CZ0011AFZZ	Screw, Cabinet	AA
238	MLEVF1425AFFW	Lever, Dubbing Start Button	AD
239	MLEVP0399AFSB	Lever, Cassette Compartment Lock	AC
241	MLIFP0018AFZZ	Damper, Cassette Compartment	AD
242	MRODM0084AFFD	Rod, Dubbing Start Button Lever	AD
243	**MSPRC0272AFFJ**	Spring, Cassette Compartment Lock Lever	AA
244	MSPRC0333AFFN	Spring, Battery Terminal	AC
245	MSPRC0334AFFN	Spring, Battery Terminal	AB
246	MSPRD0407AFFJ	Spring, Cassette Compartment Guide	AA
247	MSPRD0408AFFJ	Spring, Cassette Compartment Guide	AA
248	MSPRD0441AFFJ	Spring, Cassette Compartment	AB
249	MSPRD0442AFFJ	Spring, Cassette Compartment	AB
251	MSPRD0461AFFJ	Spring, Dubbing Start Button Lever	AB
252	CSPRT1029AF02	Dial Stringing Assembly	AB
253	NBLTK0238AFZZ	Belt, Tape Counter	AB
254	NDRM-0159AFZZ	Drum	AC
255	NPLYB0072AFZZ	Pulley, Dial Stringing	AC
256	NPLYD0052AFZZ	Pulley, Dial Stringing	AB
258	PCUSU0128AFZZ	Cushion, Coil (Tuner P.W.Board)	AA
261	PGIDM0106AFSA	Guide, Cassette Compartment (Left)	AC
262	PGIDM0107AFSA	Guide, Cassette Compartment (Right)	AC
263	PGUMR0065AFZZ	Cushion, Speaker Bracket Retaining	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
264	PRDAR0304AFFW	Heat Sink	AG
265	PSLDM3291AFFW	Shield Plate, Power Transformer	AD
266	QANTR0124AFZZ	Rod Antenna	AM
⚠ 268	QFSHD2051AFZZ	Fuse Holder	AA
269	QLUGP0109CEFW	Lug Terminal	AA
271	QTANB0156AFFN	Terminal, Battery	AB
272	PSLDM3252AFFW	Shield Plate	AB
273	LHLDW3074AFZZ	Wire Holder	AA
274	LHLDW1086AFZZ	Wire Holder	AA
275	LHLDC1059AFZZ	Holder, Antenna	AC
276	PCUSG0191AFZZ	Cushion, Shield	AB
278	LANGK0347AFZZ	Bracket, Frame Retaining	AC
279	PCUSU0281AFZZ	Cushion, Rear Cabinet	AC
280	PFLT-0339AF00	Felt, Cassette Compartment	AA
281	LHLDW3073AFZZ	Wire Holder	AA
284	PSLDM3295AFFW	Shield Plate, LED P.W.B.	AB
⚠ 285	GCOVH1179AFSE	Cover, AC Power Supply Socket	AB
287	————————	Part of RH-PX1046AFZZ	–
288	————————	Part of RH-PX1045AFZZ	–
289	PSLDC7068AFZZ	Shield Plate, Graphic Equalizer	AC
291	LX-BZ0286AFZZ	Screw, AC Power Socket Cover Retaining	AA
⚠	QACCK0050AFZZ	AC Power Supply Cord	AL
⚠	QACCL0050AF00	AC Power Supply Cord	AM
⚠	QACCZ0051AF00	AC Power Supply Cord	AH
⚠	QPLGA0251AFZZ	Adaptor, AC Plug	AE
	RTPEK0091AFZZ	Cassette Tape	AN
	SPAKA1067AFZZ	Packing Add, Speaker (Top/Bottom)	AE
	SPAKA1028AFZZ	Packing Add, Left	AG
	SPAKA1029AFZZ	Packing Add, Right	AG
	SPAKC2332AFZZ	Packing Case	AR
	SPAKP0325AFZZ	Bag, Unit	AD
	SSAKH0024AGZZ	Bag, Operation Manual	AA
	SSAKH0168AFZZ	Bag, Speaker	AB
⚠	TCAUA0178AFZZ	Caution Label, Arabic, AC Power Supply Cord	AA
	TGANE1121AFZZ	Warranty Card, For PX	AC
	TGANE1124AFZZ	Warranty Card, For Users in Australia	AC
	TINSZ0642AFZZ	Operation Manual	AL
	TLABZ0118AFZZ	Label, Free From Taxes	AB
	TLABZ0135AFZZ	Caution Label	AA
	TLABZ0364AFZZ	Label, Characterization	AC
⚠	QACCZ0057AFZZ	AC Power Supply Cord	

REF.NO.	PART NO.	DESCRIPTION	CODE
	UBATU0009AGZZ	Battery	AC
	TLSTS0001ZZR0	Service Station List, For Users in Australia	
	SPAKA1066AFZZ	Packing Add, Battery	
	SPAKS0098AFZZ	Sleeve, Battery	
	TMAPC0965AFZZ	Schematic Diagram	

SPEAKER BOX EXPLODED VIEW PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
401	GCAB-1156AFSA	Speaker, Front Cabinet Combined Assembly (Left)	AX
401	GCAB-1157AFSA	Speaker, Front Cabinet Combined Assembly (Right)	AX
401-1	GCABA1698AFSA	Front Cabinet, Left	AU
401-1	GCABA1699AFSA	Front Cabinet, Right	AT
401-2	HDECQ0175AFSA	Speaker Ring	AM
401-3	HPNC-0167AFSA	Punching Metal, Woofer	AL
402	GCABB1698AFSA1	Speaker Box, Left	AS
402	GCABB1699AFSA1	Speaker Box, Right	AS
403	HPNC-0168AFSA	Punching Metal, Tweeter	AF
404	JKNBM0469AFSA	Knob, Speaker Release	AC
405	LANGK0309AFZZ	Bracket, Fixing	AB
406	LANGT1139AFSA	Bracket, For Hang	AC
407	LANGZ0120AFZZ	Bracket Assembly, Speaker Box Fixing	
408	LHLDZ1213AFSA	Holder, Speaker Box Lead	AE
409	LX-BZ0433AFSA	Screw, Bracket Fixing	AB
410	LX-CZ0011AFZZ	Screw, Speaker Box Retaining	AA
411	MLEVP0410AFSA	Stopper, Speaker Box	AC
412	PFLT-0518AF00	Felt, Lug	AC
413	PFLT-0522AF00	Felt, Speaker Box Stopper	AA
414	PCUSU0285AFZZ	Cushion, Speaker Lead	
416	TLABG0190AFZZ	Specifications	AA
PG1,2	QCNW-2336AFZZ	Speaker Lead	
SP1,3	VSP0016PB84SA	Speaker, Woofer	AV
SP2,4	RALMB0057AFZZ	Tweeter	AC

P.W.B. ASSEMBLY (Not Replacement Item)

REF.NO.	PART NO.	DESCRIPTION	CODE
	DKEND0323AF02 (Combined Assembly)	Amp. Circuit	—
	DUNTR0185AF20 (Combined Assembly)	Tuner Circuit	—
	DUNTZ0517AF02 (Combined Assembly)	Mechanism Control Circuit	—

DIFFERENCE BETWEEN GF-700Z AND GF-700ZD, GF-700ZR

REF. NO.	GF-700Z		GF-700ZD		GF-700ZR		DESCRIPTION
	PART NO.	CODE	PART NO.	CODE	PART NO.	CODE	
3	JKNBM0468AFSA	AC	Same as GF-700Z		JKNBM0468AFSB	AB	Deck 2, Button, Record
201	CCAB-1174AF01	BE	CCAB-1268AF03	BE	CCAB-1268AF01	BF	Front Cabinet Combined Assembly
201-1	GCAB-1174AFSA	BA	GCAB-1268AFSB	BA	GCAB-1268AFSA	BA	Front Cabinet Semi-combined Assembly
201-1A	GCABA1746AFSA	AX	GCABA1746AFSD	AX	GCABA1746AFSC	AX	Front Cabinet
201-1B	HINDM1562AFSA	AP	HINDM1605AFSB	AP	HINDM1605AFSA	AP	Indication Plate, Mechanism
201-1C	HPNLD1220AFSA	AG	Same as GF-700Z		Same as GF-700Z		Window, Dial Plate
201-1D	HPNLD1226AFSA	AE	Same as GF-700Z		Same as GF-700Z		Tuning Panel (Large)
201-1E	HPNLD1228AFSA	AH	HPNLD1239AFSA	AD	Same as GF-700ZD		Tuning Panel (Small)
201-1F	PFLT-0538AFSA	AA	Same as GF-700Z		Same as GF-700Z		Felt, Graphic Equalizer
201-2	HBDGB1057AFSA	AD	Same as GF-700Z		Same as GF-700Z		SHARP Badge
201-4	HINDM1563AFSA	AH	HINDM1603AFSA	AH	Same as GF-700ZD		Indication Plate, Graphic Equalizer
201-5	HINDM1564AFSA	AG	HINDM1604AFSA	AG	Same as GF-700ZD		Indication Plate, APLD/APPS
201-6	HINDP0590AFSA	AB	Same as GF-700Z		Same as GF-700Z		Mirror, Cassette Compartment
201-7	HPNLH1054AFSA	AC	Same as GF-700Z		Same as GF-700Z		Window, APLD/APPS Indicator
202	CCABB1746AF01	AY	CCABB1746AF04	AY	Same as GF-700ZD		Rear Cabinet Combined Assembly
202-1	GCABB1746AFSA	AY	GCABB1746AFSB	AY	Same as GF-700ZD		Rear Cabinet
202-2	LANGQ0861AFFW	AB	Same as GF-700Z		Same as GF-700Z		Bracket, Rod Antenna Retaining
202-3	PSLDM3282AFZZ	AC	Same as GF-700Z		Same as GF-700Z		Shield Plate
202-4	PFLT-0553AF00	AB	—		—		Felt, Battery Compartment
205	GFATB1138AFSA	AG	GFATB1138AFSF	AG	Same as GF-700ZD		Battery Compartment
206	GFTAC1280AFSA	AL	GFTAC1280AFSC	AL	Same as GF-700ZD		Transparent Plate, Deck 1 Cassette Compartment
207	GFTAC1281AFSA	AL	GFTAC1281AFSC	AL	Same as GF-700ZD		Transparent Plate, Deck 2 Cassette Compartment
208	HDALM0433AFSA	AM	HDALM0434AFSB	AM	HDALM0434AFSA	AM	Dial Plate
209	HINDP0948AFSA	AB	HINDP0950AFSA	AB	HINDP0949AFSA	AB	Specifications, Though this is a part of the rear cabinet combined assembly (Ref. No. 202), it can be provided by itself.
211	HINDP0636AFSA	AB	HINDP0636AFSB	AB	Same as GF-700ZD		Caution Label, Though this is a part ot the rear cabinet combined assembly (Ref. No. 202), it can be provided by itself.
211	HINDP0637AFSA	AB	HINDP0637AFSB	AB	Same as GF-700ZD		Caution Label (for PX), Though this is a part of the rear cabinet combined assembly (Ref. No. 202), it can be provided by itself.
212	HSSND0313AFSA	AD	HSSND0313AFSB	AC	Same as GF-700ZD		Dial Pointer
213	JHNDG1087AFSA	AS	JHNDG1087AFSC	AQ	Same as GF-700ZD		Handle
217	JKNBK0287AFSB	AD	JKNBK0287AFSC	AB	Same as GF-700ZD		Knob, Band Selector
223	JKNBR0208AFSA	AB	Same as GF-700Z		JKNBR0208AFSC	AB	Knob, Power Switch
226	LANGF0740AFSA	AE	LANGF0740AFSD	AE	Same as GF-700ZD		Bracket, Speaker Retaining
233	LHLDL1056AFSA	AC	LHLDL1056AFSC	AC	Same as GF-700ZD		Holder, Handle
284	PSLDM3295AFFW	AB	—		—		Shield Plate, LED P.W.B.
⚠ 285	GCOVH1179AFSE	AB	GCOVH1179AFSJ	AB	Same as GF-700ZD		Cover, AC Power Supply Socket
401	GCAB-1156AFSA	AX	GCAB-1274AFSA	AX	GCAB-1270AFSA	AX	Speaker, Front Cabinet Combined Assembly (Left)
401	GCAB-1157AFSA	AX	GCAB-1275AFSA	AX	GCAB-1271AFSA	AX	Speaker, Front Cabinet Combined Assembly (Right)
401-1	GCABA1698AFSA	AU	GCABA1866AFSA	AR	GCABA1864AFSA	AV	Front Cabinet, Left
401-1	GCABA1699AFSA	AT	GCABA1867AFSA	AR	GCABA1865AFSA	AV	Front Cabinet, Right
401-2	HDEQ0175AFSA	AM	Same as GF-700Z		Same as GF-700Z		Speaker Ring
401-3	HPNC-0167AFSA	AL	HPNC-0167AFSB	AL	Same as GF-700ZD		Punching Metal, Woofer
402	GCABB1698AFSA1	AS	GCABB1698AFSD1	AS	Same as GF-700ZD		Speaker Box, Left
402	GCABB1699AFSA1	AS	GCABB1699AFSD1	AS	Same as GF-700ZD		Speaker Box, Right
403	HPNC-0168AFSA	AF	HPNC-0168AFSB	AF	Same as GF-700ZD		Punching Metal, Tweeter
404	JKNBM0469AFSA	AC	JKNBM0469AFSC	AB	Same as GF-700ZD		Knob, Speaker Release
408	LHLDZ1213AFSA	AE	LHLDZ1213AFSE	AC	Same as GF-700ZD		Holder, Speaker Box Lead
411	MLEVP0410AFSA	AC	MLEVP0410AFSB	AB	Same as GF-700ZD		Stopper, Speaker Box
416	TLABG0190AFZZ	AA	TLABG0236AFZZ	AA	TLABG0235AFZZ	AA	Specifications
J301-A,B J301-C, J301-D,E	QJAKZ0162AFZZ	AH	QJAKZ0174AFZZ	AG	Same as GF-700ZD		Line/Phono Input Sockets Earth Terminal Line Output Sockets
J601,602	QJAKE0100AFZZ	AD	QJAKE0127AFZZ	AD	Same as GF-700ZD		Speaker Socket
	SPAKC2332AFZZ	AR	SPAKC2726AFZZ	AN	SPAKC2725AFZZ	AN	Packing Case

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